	ATION OF CONTRACT	1. CONTRACT ID CO	JE	PAGE OF	PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE	REO NO LE DI	1 PO IECT NO	2
		PR-SRRPOD-14-001		ROJECT NO. (	п арричайн)
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SRRPOD US ENVIRONMENTAL PROTECTION . SUPERFUNDRCRA REGIONAL PROCU OPERATIONS	AGENCY			L	
1200 PENNSYLVANIA AVE NW					
WASHINGTON DC 20460  B. NAME AND ADDRESS OF CONTRACTOR (No., street,	county. State and 7IP Code)	(A) 9A. AMENDMENT OF SOL	ICITATION NO		
ALION SCIENCE AND TECHNOLOGY ATTN (b)(4)		9B. DATED (SEE ITEM 11)	*		
000 BURR RIDGE PKWY (4)		X FD-W-07-083	ONTRACT/ORDER NO.		
URR RIDGE IL 605270849		EP-W-07-083 0026 10B. DATED (SEE ITEM 1)	3)		
CODE (b)(4)	FACILITY CODE	09/26/2011	,		
(-)(-)	11. THIS ITEM ONLY APPLIES TO		NS		
separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF O virtue of this amendment you desire to change an offer	FFERS PRIOR TO THE HOUR AND D already submitted, such change may b	ers. FAILURE OF YOUR ACKN ATE SPECIFIED MAY RESULT a made by telegram or letter, pro	OWLEDGEMENT TO BE RE IN REJECTION OF YOUR O	FFER. If by	
to the solicitation and this amendment, and is received 12. ACCOUNTING AND APPROPRIATION DATA (If required See Schedule		Decrease:	`-\$13,	393.74	
	DDIFICATION OF CONTRACTS/ORDER	S. IT MODIFIES THE CONTRAC	T/ORDER NO. AS DESCRIE	BED IN ITEM 14	4.
A. THIS CHANGE ORDER IS ISSUED PLORDER NO. IN ITEM 10A.  B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH  C. THIS SUPPLEMENTAL AGREEMENT	T/ORDER IS MODIFIED TO REFLECT IN ITEM 14, PURSUANT TO THE AUT	THE ADMINISTRATIVE CHANG HORITY OF FAR 43.103(b).			
D. OTHER (Specify type of modification a	and authority)				
X SECTION B-5 LIMITA		ENT'S OBLIGATION	S UNDER TASK O		
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	is required to sign this document an	return 0	copies to the issuing office		
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STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

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CONTINUATION SHEET	EP-W-07-083	/0026/010	2	2

NAME OF OFFEROR OR CONTRACTOR

TEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE	AMOUNT (F)
	CHANGES FOR LINE ITEM NUMBER: 1 Obligated Amount for this modification: -\$13,393.74 Incremental Funded Amount changed from \$1,000,247.80 to \$986,854.06				
	CHANGES FOR ACCOUNTING CODE: 12-T-72BS-303DD2-2505-HQ00LA00-1272BS5007-001 Amount changed from \$390,000.00 to \$376,606.26				*
,	Total Ceiling: \$1,070,121.35 Total Funding: \$986,854.06 Period of Performance: 09/26/2011 to 10/10/2012			,	
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AMENDMENT (	OF SOLICITA	TION/MODIFIC	ATION OF C	<b>—</b> СТ			1 1 1	
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	NCE AND T	ECHNOLOGY	CORPORATION	N				
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(4)	ŀ			-	10A. MODIFICATION OF CONTRACT	T/ORDER NO		
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ODE (b)(4)			FACILITY CODE		09/26/2011			
			11, THS ITE ON	LYAPPLIES TO AM	ENDMENTS OF SOLICITATIONS			
Offers must acknown items 8 and 15, and separate letter or THE PLACE DES	owledge receipt on and returning telegram which in SIGNATED FOR	of this amendment p cop ncludes a reference THE RECEIPT OF (	pies of the amendment to the solicitation and DFFERS PRIOR TO T	ate specified in the so t; (b) By acknowledgin amendment numbers HE HOUR AND DAT	licitation or as amended, by one of the fo ng receipt of this amendment on each co s. FAILURE OF YOUR ACKNOWLEDG E SPECIFIED MAY RESULT IN REJEC nade by telegram or letter, provided each	ollowing methods: opy of the offer sub EMENT TO BE RI TION OF YOUR O	omitted; or (c) By ECEIVED AT DFFER. If by	
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B. T. O.	IS. THIS ITEM OF THIS CHANGE OF THE ABOVE NUMBER OF THE ABOVE NUMBER OF AMENDMEN  CONTRACTOR  OF AMENDMEN  T: (b)(4)  Services  irol Max  E OF THIS  ON ONTO THEREBY INTERIOR  ANGES:   herein, all terms  TLE OF SIGNER	RDER IS ISSUED F TEM 10A.  ABERED CONTRACE, etc.) SET FORTH ENTAL AGREEMEN  TOPE OF modification  OF THE GO  IS IS NOT.  IT/MODIFICATION (  S & OSCAR (  EXPIRE Date  CASK ORDER  DECREASED (  and conditions of the (Type or print)	CURSUANT TO: (Special Control of the	NTRACTS/ORDERS.  Cify authority) THE CI  ED TO REFLECT THANT TO THE AUTHOR  PURSUANT TO AUT  OBLIGATION  Ithis document and recition headings, incluir  rations (SF  014  DEOBLIGATE  THIS SAME (C)  , 260.09 BY	HANGES SET FORTH IN ITEM 14 ARE HE ADMINISTRATIVE CHANGES (such a life ADMINISTRATIVE CHANGES (such a	MADE IN THE CO. as changes in pay to the Issuing office where feasible.)  S TASK OR  0,247.80.	DER FOR e and effect. Type or print)	

Prescribed by GSA FAR (48 CFR) 53.243

CONTINUATION SHEET REFERENCE NO. OF DOCUMENT BEING CONTINUED

EP-W-0 3/0026/009

PAGE OF 2 2

NAME OF OFFEROR OR CONTRACTOR

M NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F')
	Reason for Modification : Funding Only Action				
	Obligated Amount for this Modification: -\$23,012.29				
	New Total Obligated Amount for this Award:				
	\$1,000,247.80			*	
	Incremental Funded Amount changed: from				
	\$1,023,260.09 to \$1,000,247.80			1	
			1	- 10	
	CHANGES FOR ACCOUNTING CODE: 12T-72BS-303DD2-2505-HQ00LA001272BS5050-001				
	Amount changed from \$80,000.00 to \$56,987.71				
	111110 die Giangea 110111 400,000.00 de 400,507.71				
	Period of Performance: 09/26/2011 to 10/10/2012				
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AMENDME	NT OF SOLICIT	ATION/MODIFIC	ATION OF C	ст ст		1. CONTRACT ID CODE		PAGE OF	PAGES
2. AMENDME	NT/MODIFICATION	NO.	3. EFFECTIVE	DATE	4. R	EQUISITION/PURCHASE REQ. NO.	5. PR	OJECT NO	. (If applicable)
008			See Blo	ck 16C	PR-	-SRRPOD-14-00060			
6. ISSUED BY		CODE	SRRPOD		7. /	ADMINISTERED BY (If other than Item 6)	CODE		
SUPERFUI OPERATION PER	NDRCRA REG							<u> </u>	
		TRACTOR (No., street	county. State and	i ZIP Code)	64	9A. AMENDMENT OF SOLICITATION NO.			
ALION SC ATTN (b)(4 1000 BUF (b)(4)	CIENCE AND	TECHNOLOGY WY	•	TION	x	9B. DATED (SEE ITEM 11)  10A. MODIFICATION OF CONTRACT/ORDER NO EP-W-07-083  0026	Ο.		
/l= \/ /	1)					10B. DATED (SEE ITEM 13)			
CODE (b)(4	+)		FACILITY COL	DE		09/26/2011			
			11. THIS ITE	EM ONLY APPLIES TO A	MEN	DMENTS OF SOLICITATIONS			
THE PLACE virtue of this to the solicit	E DESIGNATED FOI s amendment you de lation and this amend FING AND APPROPI edule	R THE RECEIPT OF 0 sire to change an offe dment, and is received RIATION DATA (If req	OFFERS PRIOR r already submit f prior to the ope	R TO THE HOUR AND DA ted, such change may be ening hour and date speci Net	fied.		OUR OF letter	FER. If by makes refer	rence
CHECK ONE	B. THE ABOVE NU appropriation da	JMBERED CONTRAC ate, etc.) SET FORTH	CT/ORDER IS M I IN ITEM 14, PU		THE	ADMINISTRATIVE CHANGES (such as changes in the control of the cont			
	D. OTHER (Specif	y type of modification	and authority)						
Х	LIMITATIO	N OF THE GO	VERNMENT	'S OBLIGATIO	NS	UNDER TASK ORDERS			
E. IMPORTAN	T: Contractor	⊠ is not,	is required 1	to sign this document and	retu	rn O copies to the issuing	office.		
DUNS Num Analytic	mber: (b)(4) cal Service		Station	Operations (S		ng solicitation/contract subject matter where feasib	le.)		
REOBLIGA	OTION ONTO	TASK ORDER	#44 UND	ER THIS SAME	CC	\$3,677.20 FROM THIS TASK (ONTRACT. \$3,677.20 TO \$1,023,260.0		ER FOR	
	CHANGES:					•			
Continue									
			e document refe	erenced in Item 9A or 10A		heretofore changed, remains unchanged and in fu			
15A. NAME A	ND TITLE OF SIGNE	R (Type or print)			16	A. NAME AND TITLE OF CONTRACTING OFFICE  A. NAME AND TITLE OFFI	ER <i>(T</i> )	ype or print)	
15B. CONTRA	ACTOR/OFFEROR			15C. DATE SIGNED	16	B. UNITED STATES OF AMERICA		160	2/24/13
	(Signature of person au	thorizad to sign)	_		-7	(Signature of Contracting Officer)		_	12/10

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53,243

	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF	_
CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED  EP-W-0 3/0026/008	2	2	

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Reason for Modification: Funding Only Action Total Amount for this Modification: -\$3,677.20 New Total Obligated Amount for this Award: \$1,023,260.09 Incremental Funded Amount changed: from \$1,026,937.29 to \$1,023,260.09				
	CHANGES FOR ACCOUNTING CODE: 12-T-72BS-303DD2-2505-HQ00LA001272BS5030-001 Amount changed from \$162,287.19 to \$158,609.99				
	Period of Performance: 09/26/2011 to 10/10/2012				
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Ti de la companya de					* * * * * * * * * * * * * * * * * * * *
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NSN 7540-01-152					

AMENDMENT OF SOLICITATION/MODIFIC	ATIO CO	ONTRACT		CONTRACT ID CODE		E OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	DATE	4. REQ	L UISITION/PURCHASE REQ. NO.	5. PROJEC	T NO. (If applicable)
007	See Bloc	k 160	PR-S	RRPOD-13-00076		, , , , , , , , , , , , , , , , , , , ,
6. ISSUED BY CODE	SRRPOD		7. ADN	MINISTERED BY (If other than Item 6)	CODE SI	RRPOD
SRRPOD	014.1.02		SRR	POD	12.	
US ENVIRONMENTAL PROTECTION	AGENCY			ENVIRONMENTAL PROTECTION	N AGENO	CY
SUPERFUNDRCRA REGIONAL PROCU	JREMENT		SUP	ERFUNDRCRA REGIONAL PRO	CUREMEN	1T
OPERATIONS			OPE:	RATIONS		
1200 PENNSYLVANIA AVE NW				O PENNSYLVANIA AVE NW		
WASHINGTON DC 20460  8. NAME AND ADDRESS OF CONTRACTOR (No., stree	4			HINGTON DC 20460		**
O. NAME AND ADDRESS OF CONTRACTOR (No., STREET	t, county, State and	ZIP Code)	(x) SA	AMENDMENT OF SOLICITATION NO.		
ALION SCIENCE AND TECHNOLOGY	CORPORAT	ION				
Attn: (b)(4)			9B	DATED (SEE ITEM 11)		
1000 BURR RIDGE PKWY						
b)(4)		ļ		MODIFICATION OF CONTRACT/ORDER N	О.	
BURR RIDGE IL 605270849			E.	P-W-07-083		
		Ì	<u> </u>	) 2 6 B. DATED (SEE ITEM 13)		
CODE (b)(4)	FACILITY COD	E				
(5)(4)				9/26/2011		
The above numbered solicitation is amended as set f				IENTS OF SOLICITATIONS Deceipt of Offers		not extended,
Differs must acknowledge receipt of this amendment Items 8 and 15, and returning consequence of the second separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an offer to the solicitation and this amendment, and is received.	pies of the amend to the solicitation OFFERS PRIOR or already submitt	dment; (b) By acknowled; n and amendment numbe TO THE HOUR AND DA ed, such change may be	ging red ers. FA TE SP made	eipt of this amendment on each copy of the of ILURE OF YOUR ACKNOWLEDGEMENT TO ECIFIED MAY RESULT IN REJECTION OF YO	fer submitted BE RECEIVI OUR OFFER	; or (c) By ED AT . If by
12. ACCOUNTING AND APPROPRIATION DATA (If re				rease: -	30,000	. 00
See Schedule		Nec	Dec	Lease.	,50,000	.00
	CT/ORDER IS M H IN ITEM 14, PU NT IS ENTERED	ODIFIED TO REFLECT T IRSUANT TO THE AUTH	THE AE	SES SET FORTH IN ITEM 14 ARE MADE IN TO MINISTRATIVE CHANGES (such as changes OF FAR 43.103(b).		
		10 ODITOMETO	NO T	MADE WARE ODDEDO		
E. IMPORTANT: Contractor Sis not,  14. DESCRIPTION OF AMENDMENT/MODIFICATION		o sign this document and		copies to the issuin		
DUNS Number: (b)(4)  Analytical Services & OSCAR TOPO: N. Tirol Max Expire Da	Station	Operations (S	7	oniatalionicontract Subject matter where least	ore.)	
The purpose of this modifica 30,000.00 and reobligate the	ese funds	to Task Orde	er O	042 for the continuation		
Award Term 3. All other ter	rms and c	onditions rem	nain	the same.		
TTOM OF CURVORS						
LIST OF CHANGES:	11.61	400 00	00			
Obligated Amount for this Mo	odilicati	on: -\$30,000	.00			
Continued						
Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print)	ne document refe	renced in Item 9A or 10A				· . ·
ION. MANUE AIND THEE OF SIGNER (Type or print)			IOA.	NAME AND TITLE OF CONTRACTING OFFI	OER (1ype C	r print)
				enna Njoku		
15B. CONTRACTOR/OFFEROR		15C, DATE SIGNED	6/1	UNITED STATES OF AMERICA		16C. DATE SIGNED
(Signature of person authorized to sign)				(Signature of Contracting Officer)		110011

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

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REFERENCE NO. OF MENT BEING CONTINUED	PAGE	OF
CONTINUATION SHEET EP-W-07-083/0026/007	2	2

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE	AMOUNT (F)
	New Total Obligated Amount for this Award: \$1,026,937.29				
	Incremental Funded Amount changed: from \$1,056,937.29 to \$1,026,937.29				
	CHANGES FOR ACCOUNTING CODE: 12-T-72BS-303DD2-2505-HQ00LA00-1272BS5050-001 Amount changed from \$110,000.00 to \$80,000.00	İ			
	Period of Performance: 09/26/2011 to 10/10/2012				
	The contractor shall not exceed the current limitation of the Government's obligations under this task order without prior written authorization from the Contracting Officer.				
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AMENDMENT OF SOLICITATION/MODIFIC	ATIO CONTRA	СТ	1. CONTRACT ID CODE	PAGE OF PAGES
			FOLIOTION IN LIBOUR OF FEED AND	1 2
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	ממ	EQUISITION/PURCHASE REQ. NO. -OSWER-12-00514	5. PROJECT NO. (If applicable)
006 6. ISSUED BY CODE	See Block 160	-	DMINISTERED BY (If other than Item 6)	CODE GRADOD
6. ISSUED BY	SRRPOD			SRRPOD
SRRPOD US ENVIRONMENTAL PROTECTION SUPERFUNDRCRA REGIONAL PROCU OPERATIONS 1200 PENNSYLVANIA AVE NW WASHINGTON DC 20460		US SU OP 12	RPOD ENVIRONMENTAL PROTECT PERFUNDRCRA REGIONAL P ERATIONS OO PENNSYLVANIA AVE NW SHINGTON DC 20460	ROCUREMENT
B. NAME AND ADDRESS OF CONTRACTOR (No., stree	t county State and ZIP Code)		PA. AMENDMENT OF SOLICITATION NO.	
ALION SCIENCE AND TECHNOLOGY Attn: (b)(4)  1000 BURR RIDGE PKWY 10)(4)  BURR RIDGE IL 605270849		x	DB. DATED (SEE ITEM 11)  10A. MODIFICATION OF CONTRACT/ORDE  EP-W-07-083  0026	ER NO.
		i	IOB. DATED (SEE ITEM 13)	
(b)(4)	FACILITY CODE		09/26/2011	
	11. THIS ITEM ONLY	APPLIES TO AMEN	DMENTS OF SOLICITATIONS	
			MODIFIES THE CONTRACT/ORDER NO. AS	
			ADMINISTRATIVE CHANGES (such as char TY OF FAR 43.103(b).	iges in paying office,
C. THIS SUPPLEMENTAL AGREEMEN  X OPTION TO EXTEND SER			•	
X OPTION TO EXTEND SER  D. OTHER (Specify type of modification		-0) (NOV 1		
X LIMITATION OF THE GO		T TCATTONG	INDED TACK OPDEDS	
			1	
E.IMPORTANT: Contractor   is not.  14. DESCRIPTION OF AMENDMENT/MODIFICATION  DUNS Number: (b)(4)  Analytical Services & OSCAR  COPO: N. Tirol Max Expire Da	Station Opera	n headings, includin		
	, - 3			
The purpose of this modifica	tion is to:			
.) Extend services under th Effective September 26, 2012				
tilizing the approved rates			*	
Continued  Except as provided herein, all terms and conditions of the Control	ne document referenced in		neretofore changed, remains unchanged and A. NAME AND TITLE OF CONTRACTING C	
Principal Contracts A	dministrato	or N	nenna Njoku	
15B. CONTRACTOR/OFFEROR  DS Davis	15C. DAT		UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)			(Signature of Contracting Officer)	1/20/20

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

NAME OF OFFEROR OR CONTRACTOR

TEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	2) Correct the task order ceiling amount in				
	modification 005 to \$1,070,121.35.				
	2) Obligate funds in the amount of 610 000 00				
	3) Obligate funds in the amount of \$10,000.00.				
	All other terms and conditions remain the same.				
	LIST OF CHANGES:				
	Reason for Modification: Supplemental Agreement				
	for work within scope Period Of Performance End Date changed from				
	25-SEP-12 to 10-OCT-12	11	1		
	Obligated Amount for this Modification: \$10,000.00				
	New Total Obligated Amount for this Award:				
	\$1,056,937.29				
	Incremental Funded Amount changed: from \$1,046,937.29 to \$1,056,937.29				
	\$1,040,937.29 CO \$1,030,937.29				
	CHANGES FOR ACCOUNTING CODE:				
	12-T-72BS-303DD2-2505-HQ00LA00-1272BS5050-001				
	Amount changed from \$100,000.00 to \$110,000.00				
1	Period of Performance: 09/26/2011 to 10/10/2012				
	10110d 01 101101mance. 03/20/2011 to 10/10/2012				
	The contractor shall not exceed the current	l			
	limitation of the Government's obligations under this task order without prior written				
	authorization from the Contracting Officer.				
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AMENDME	NT OF SOLICITATION/MODIFIC	ATIME CONTRACT		1. CONTRACT ID CODE	PAGE (	OF PAGES
					1	2
	NT/MODIFICATION NO.	3. EFFECTIVE DATE		QUISITION/PURCHASE REQ. NO.	5. PROJECT N	O. (If applicable)
005		See Block 16C		OSWER-12-00514	0005	
6. ISSUED BY	CODE	SRRPOD	7. AL	MINISTERED BY (If other than Item 6)	CODE SRR	POD
SUPERFUI OPERATIO 1200 PEI	NNSYLVANIA AVE NW		US SUI OPI	RPOD ENVIRONMENTAL PROTECT PERFUNDRCRA REGIONAL P RATIONS DO PENNSYLVANIA AVE NW	ROCUREMENT	
	TON DC 20460		WAS	SHINGTON DC 20460		
ALION SC				A. AMENDMENT OF SOLICITATION NO.  B. DATED (SEE ITEM 11)		
0)(4)	OGE IL 605270849		X E	DA. MODIFICATION OF CONTRACT/ORDE P-W-07-083 026	ER NO.	
			1	DB. DATED (SEE ITEM 13)		
CODE (b)	(4)	FACILITY CODE		09/26/2011		
		11. THIS ITEM ONLY APPLI	ES TO AMEND	MENTS OF SOLICITATIONS		
to the solicit	tation and this amendment, and is receive TING AND APPROPRIATION DATA (If recedule	d prior to the opening hour and d	ate specified. Net In	by telegram or letter, provided each telegra	\$100,000.0	00
	13. THIS ITEM ONLY APPLIES TO N	ODIFICATION OF CONTRACTS	ORDERS. IT	MODIFIES THE CONTRACT/ORDER NO. AS	S DESCRIBED IN ITE	M 14.
X X	ORDER NO. IN ITEM 10A. CHANGES - TIME AND N	MATERIAL OR LABOR CT/ORDER IS MODIFIED TO RE H IN ITEM 14, PURSUANT TO T	HOURS EFLECT THE A	IGES SET FORTH IN ITEM 14 ARE MADE  (52.243-3) (SEP 2000)  DMINISTRATIVE CHANGES (such as char Y OF FAR 43.103(b).  RITY OF:		
	D OTHER (On eit Am of my life time	and a dhawka				
x	D. OTHER (Specify type of modification		TAM TOME	INDED MACK OPPED		
	LIMITATION OF THE GO					
DUNS Nur Analytic	TION OF AMENDMENT/MODIFICATION	Station Operatio	dings, including	copies to the is solicitation/contract subject matter where t		<u> </u>
under tl \$1,070,	his Task Order. This	modification al	so incr	revisions made to the eases the ceiling from	n \$9 <b>4</b> 6,937.	29 to
LIST OF	CHANGES:					
Continu	ed					
		he document referenced in Item 9		eretofore changed, remains unchanged and		
15A. NAME A	ND TITLE OF SIGNER (Type or print)		1	MAME AND TITLE OF CONTRACTING C mes Patrick-Blase Etz		int)
15B. CONTRA	ACTOR/OFFEROR	15C. DATE SIG		United States of America	1	GC. DATE SIGNED
	(Signature of person authorized to sign)			(Signature of Contracting Officer)	OF	1/27/12

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

CONTINUE TION OFFET	REFERENCE NO. OF —MENT BEING CONTINUED	PAGE	OF
CONTINUATION SHEET	EP-W-07-083/0026/005	2	2

NAME OF OFFEROR OR CONTRACTOR

(A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Reason for Modification: Definitize Change Order Obligated Amount for this Modification: \$100,000.00				
	New Total Obligated Amount for this Award: \$1,046,937.29 Incremental Funded Amount changed: from				-
	Incremental Funded Amount changed: from \$946,937.29 to \$1,046,937.29				В
	NEW ACCOUNTING CODE ADDED: Account code:		(3		
	12-T-72BS-303DD2-2505-HQ00LA00-1272BS5050-001 Beginning FiscalYear 12 Fund (Appropriation) T Budget Organization 72BS				
	Amount: \$100,000.00				
	Period of Performance: 09/26/2011 to 09/25/2012				
	The contractor shall not exceed the current limitation of the Government's obligations under this task order without prior written authorization from the contracting officer.				
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## TASK ORDER STATEMENT OF WORK ANALYTICAL SERVICES & OSCAR STATION OPERATIONS (SUPERFUND)

### **Purpose**

The Region 2 Laboratory is committed to producing environmental data of known quality, adequate for its intended use and to thoroughly document all aspects of the data generation. The documentation shall be verifiable and defensible.

## **Analytical Services**

The contractor's task shall be to perform qualitative and quantitative analyses of samples for EPA Region 2 under the provisions of the ESAT contract Statement of Work and other applicable support functions. Method development and testing, statistical and data management and Quality Assurance/Quality Control (QA/QC) task areas are associated with the analysis of environmental samples and the production of data of known quality and properly documented quality. Each assignment and costs shall be tracked separately and the internal administrative and management activities necessary to perform the services required by this Task Order shall be included in these costs. The contractor shall break out from their weekly and monthly activity report the description of the work accomplished under this Task Order and deliver a copy of the deliverables to the Project Officer (PO) on a weekly basis. For projects with a turnaround time (TAT) greater than fourteen (14) days, the Contractor shall be required to submit deliverables one (1) business day before the due date as indicated on the Project Status Report. For all other TATs, the TOPO will specify the deliverable dates via Technical Direction Form (TDF) or e-mail. The TDF and/or e-mail will specify the necessary information relating to Analytical Services and due dates.

#### **OSCAR Station**

The contractor shall provide administrative and logistical support for operation of the Region's Official Sample Control and Repository (OSCAR) Station and the Laboratory Information Management System (LIMS) to EPA Region 2 under the provisions of the ESAT contract Statement of Work and other applicable support functions. The contractor shall break out from their weekly and monthly activity report the description of the work accomplished under this Task Order and deliver a copy of the accomplishments to the Task Order Project Officer (TOPO) and the Project Officer (PO). Internal administrative and management activities necessary to effectively perform the services required by this Task Order shall be tracked separately in the weekly activity report. Specific support functions are outlined in Tasks 1, 2 and 3 and in the contract Statement of Work. Contractor support under this task order is limited to samples and data obtained from Superfund sites.

### STATEMENT OF WORK - TASK AREA I: ANALYTICAL SUPPORT

### Task 1: Task Order Management:

The contractor shall track the status of the tasks, labor hours, number of samples, type of analyses for each task under this TO and costs for the cost reimbursable portion. The tasks

must be defined as either site specific or task specific (site allocatable). The contractor shall provide the PO and the TOPO with weekly reports for the above referenced data.

The contractor shall maintain a database containing information as it relates to this program for work performed as described in each task area (i.e., I, II, III, and IV) for the Superfund program (e.g., Task Area I - Analytical Support - specific analytical costs by parameter (e.g., VOA, Semi-VOA, Metals, cyanide, etc).

The contractor shall provide the costs for performing specific types of analyses and sample preparation on a monthly basis preferably included in the Monthly Financial Report. This information should include costs for sample handling and management associated with each type (VOA, metals, etc.) of analysis performed. The sample handling and/or sample management costs shall include costs for sample handling, log-in/storage, tracking, reporting, and disposal.

ESAT Team management shall meet with the PO, TOPO and other designated EPA representatives monthly or as needed, to update EPA on the status of tasks, completion schedules and to address any relevant technical issues.

The contractor shall submit all deliverables under this TO to the TOPO with a cover letter identifying each document submitted or task completed.

The contractor shall review all deliverables following the protocols specified in the SOPs used to generate the deliverable. The reviewer must have sufficient technical competence to be able to understand all aspects of the document to be reviewed and to have not been significantly involved in the generation of the data and the preparation of the deliverable. The reviewer shall assure each deliverable is accurate, technically sound and free from transcription errors. If such a review cannot be performed on any deliverable, the contractor shall notify the PO and the TOPO prior to the submission of the deliverable.

The contractor shall immediately notify the PO and the TOPO as soon as it is determined that a schedule for the completion of any task or submission of any deliverable may not be met. This notification shall be submitted via e-mail with justification and revised completion dates for the approval of the TOPO, PO/Alternate PO and/or the Contracting Officer (CO.) If a deliverable cannot be submitted by the deliverable completion date, the TOPO and PO/Alternate PO must be notified at least two (2) business days prior to the completion date.

This statement of Work is subject to change based on changing priorities and workload fluctuations. The contractor may be required to make changes to accommodate the Agency's changing needs. The Agency shall revise the SOW as necessary.

The Contractor shall notify the CO and PO when 85% of funding for this Task Order has been expended.

## **Deliverables**

The contractor shall submit to the PO and the TOPO weekly reports with narratives of all current contract activities, including administrative and management highlights. Each table and/or

report should identify activities by Task Orders and/or Technical Direction Form No.. The reports shall be submitted on Wednesday for the preceding weekly period.

The weekly reports should include:

- ongoing, suspended, cancelled, work, and completed activities;
- analysis type, start date, due date, and completion date;
- number of samples, estimated hours expended, estimated cumulative hours and staff name:
- estimated hours; and
- cumulative totals for each of the above categories

\*All estimated hours should be annotated at the bottom of the table or chart by an asterisk referencing the affected activity.

The monthly report should include the aforementioned information and including:

- Total hours, dollars, and ODC costs;
- funding ceiling and percentages utilized in each category (i.e. hours, dollars, ceilings, etc); and,
- Cumulative totals for each of the above categories (i.e. hours, dollars, etc).

\*If applicable, all estimates should be annotated at the bottom of the table or chart by an asterisk.

## **TASK 2: Analytical Support**

### **Laboratory Sample Analyses**

The contractor shall analyze environmental samples consisting of a wide variety of media for organic and inorganic analytes/parameters including but not limited to volatile and semi-volatile organic compounds, pesticides/PCBs, trace metals, wet chemistry analytes/parameters and other inorganic analytes. New methods and parameters not covered by current standard operating procedures (i.e., Gasoline Range Organics by GC) shall be added as needed. New methods will be identified by TDF and will address a wide variety of media for organic, inorganic, biology and wet chemistry analytes/parameters. Sample analyses shall include qualitative and/or quantitative analysis, as well as sample preparation, extraction, digestion, distillation, measurement, data reduction, data review and reporting as applicable.

The contractor shall analyze environmental samples for analytes/parameters (but not limited to) those listed under the section SOPs and Guidance Documents Reference Available to the Contractor.

Samples will be assigned to the contractor for analysis by means of TDF or e-mail.

All analytical data shall be properly documented and all analytical and technical procedures shall be covered by SOPs or other appropriate form of documentation. The contractor shall perform the assigned sample analyses in accordance with the appropriate SOPs. In the event that unforeseen circumstances require deviation from the technical procedures contained in the

SOPs, alternate technical instructions will be provided in writing.

The contractor must maintain and provide to the TOPO documentation of the completion of initial and continuing demonstrations of capability, Performance Test Samples (PTS) and MDLs for all analytical work performed in a timely manner as per the Region 2 Laboratory Quality Management Plan. MDL studies shall be performed when there is new instrumentation or a significant change in methodology, as per the Region 2 Laboratory Quality Management Plan (LQMP) and appropriate SOP.

Please note that all policies within the Region 2 LQMP must be followed.

## **Acceptance Criteria**

The environmental data generated and reported shall be of known quality, adequate for its intended use and thoroughly documented. All deliverables shall be submitted to the TOPO within the time frame specified below. All assigned tasks shall be completed within the allocated level of effort as specified in the Government Quality Assurance Surveillance Plan (QASP.) All required QA demonstrations and determinations shall be documented by the contractor and submitted to the TOPO within the time frames specified below.

The quality of the data shall be determined by the compliance with all QA/QC criteria specified in the technical documentation and guidance used by the contractor. Documentation that the samples were analyzed correctly must exist. Examples are:

- Sample response of instruments within calibration range
- Data to show appropriate method used sample matrix spike recovery data, method detection limits, etc.
- Identification of standards used during analysis
- · Quality control data for each batch of analyses
- Documentation of contractor peer review of results

Adequacy of the data for its intended use shall be evaluated based upon conformance with criteria specified in the SOPs or TDFs. Examples are:

- Data reported conforms to the SOP/Method reporting limits
- Special instructions on TDFs are carried out appropriately
- Special reporting limits specified on TDFs are attained.

The contractor shall document all work performed in accordance with the protocols specified in the current Region 2 LQMP, SOPs, and National Environmental Laboratory Accreditation Conference (NELAC) Standards. All documentation must be adequate with respect to completeness and reproducibility.

Analytical deliverables (e.g. complete data package) shall be submitted to the TOPO three (3) business days prior to the due date listed on the Project Status Report. The contractor demonstrations of capability, MDL and PTS for all analytical work performed shall be performed according to the current LQMP and NELAC standards.

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## **Documentation**

## **SOPs and Guidance Documents Available to the Contractor**

For the Analytical Support activities, as defined in the Task activities are to be performed using the basic methods and technical procedures described in the following documents. This list may not be all inclusive. For example, biological analyses/functions may be performed by the Contractor.

In addition to the method SOPs mentioned below, the following documents must be adhered to:

Region 2 Laboratory Quality Management Plan Current NELAC Standards All General SOPs

## **Wet Chemistry Analyses SOPs**

EPA B-8.33	Particle Size Analysis – Hydrometer Method
EPA-C-18	Alkalinity (Titrimetric Method)
EPA- C-19	Sulfate (Colorimetric Method)
EPA-C-21	Biological Oxygen Demand
EPA-C-22	Chloride (Titrimetric Method)
EPA-C-24	pH/Corrositivity
EPA-C-28	Cyanide, Total Analysis, (Colorimetric Method)
EPA-C-33	Total Suspended Solids (TSS), Volatile Suspended Solids (VSS)
EPA-C-35	Settleable Solids (Imhoff Cone Procedure)
EPA-C-37	Total Dissolved Solids (TDS) (Gravimetric Method)
EPA-C-40	Total Kjeldahl Nitrogen (as N), (Colorimetric Method)
EPA-C-53	Chemical Oxygen Demand (COD)
EPA-C-68	Total Phosphorous and Orthophosphate (as P) (Colorimetric Method)
EPA-C-79	Nitrate+Nitrite (as N) (Colorimetric Method)
EPA-C-80	Ammonia (as N) (Colorimetric Method)
EPA-C-83	Total Organic Carbon in Aqueous (Combustion/Infrared Detection
	Method)
EPA-C-88	Total Organic Carbon in Sediments (Combustion/Infrared Detection
	Method)
EPA-C-93	Flouride by Flow Injection Analysis
EPA-C-94	Anions by Ion Chromatography
EPA-C-96	Hexavalent Chromium
EPA-C-115	Sulfide, Methylene Blue
EPA-C-121	Total Solids/Volatile Solids

## **Inorganic - Trace Metals Analyses SOPs**

EPA-C-107	Toxicity Characteristic Leaching Procedure for Metals and Semi-Volatile
	Organic Analysis
EPA-C-109	Metals (ICP/AES Method)
EPA-C-110	Mercury (CVAAS Method)

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EPA-C-112 Trace Elements by ICP-MS

EPA-C-116 Preparation of Aqueous, TCLP

Extracts, Soil/Sediment/Sludge, Waste Oil/Organic Solvents, and

Biological Tissue Matrices by Block Digestion

## **Volatile Organic Analyses SOPs**

EPA-DW-1	Low Level Volatiles Analysis, (Purge & Trap GC/MS Method)
EPA-C-89	Analysis of Volatile Organic Compounds in Aqueous, Soil/Sediment and
	Waste Oil/Waste Organic Solvents Samples by Purge and Trap GC/MS
EPA-C-106	Toxicity Characteristic Leaching Procedure for Volatile Organic Analysis
	EPA-C-123 Analysis of Volatile Organic Compounds by Automated
	Closed System Purge and Trap GC/MS (Med Level)
EPA-C-124	Determination of Dissolved Methane, Ethylene and Ethane in Water by
	Headspace GC/FID

## **Semi-Volatile Organic Analyses SOPs**

EPA-C-90	Semi-Volatiles Analysis (GC/MS Method)
	EPA-C-107 Toxicity Characteristic Leaching Procedure for Metals and
	Semi-Volatile Organic Analysis

## Pesticides and Poly Chlorinated Biphenyls (PCBs) Analyses SOPs

EPA- <b>C-</b> 66	Cleanup of Sample Extracts by Gel Permeation Chromatography for
	PCB/Pesticide Analysis
EPA-C-91	Pesticides/PCBs (GC-ECD Method)
EPA-C-103	Cleanup of Sample Extracts Using Concentrated Sulfuric Acid for PCB
	Analysis
EPA-C-111	Cleanup of Sample Extracts Using Silica-Gel Column chromatography for
	PCB and Pesticides Analysis

### **Deliverables for Analytical Support**

On a weekly basis the contractor shall submit to the TOPO and the PO a project status report. The report should include the work completed with the completion date and the work pending.

Each sample analysis project submitted to the TOPO shall be identified by site name, LIMS Project Number and contain the final analytical results. The content and format are specified in the SOPs listed above.

Data package deliverables as referenced in the LQMP and SOPs include but may not be limited to:

- Cover letter
- Copy of the Chain-of-Custody documents
- Analytical Checklists/Standards Prep/Run Logs as applicable LIMS Report, and
- All analytical raw data (e.g. instrument printouts, chromatography, bench sheets, etc.), and Cross Reference Sheet, if needed.

The total number of anticipated analyses for the contract year is **11,150**. The estimated breakdown is listed below. The breakdown may change due to analytical requests.

The estimated number of analyses to be completed under Wet Chemistry analysis is 5300.

The estimated number of analyses to be completed under Volatile Organic Compound Analyses, including Methane, Ethane, and Ethylene is **2100**.

The estimated number of analyses to be completed under Semi-Volatile Organic Compound Analyses, including 1,4-Dioxane is **300**.

The estimated number of analyses to be completed under Pesticides Analyses is 100.

The estimated number of analyses to be completed under Polychlorinated Biphenyls (PCBs) Analyses is **350**.

The estimated number of analyses to be completed under Inorganic - Metals is 3000.

The estimates above are applicable to Task Areas I and II. The contractor's estimate cost should be based on the information in this SOW.

## Laboratory Information Management Systems (LIMS) deliverables

Data entered into the LIMS must be verified by a second, independent reviewer. After the data have been verified as entered correctly, the reviewer validates the analyses in the LIMS. The TOPO will perform an electronic check to confirm the completion of the peer review and the validation of the analyses by the contractor. The deliverable will be considered submitted when the peer review and validation of the analyses are completed in LIMS.

#### **Laboratory Automation**

The contractor shall provide support in the automation of data reduction and sample analysis for the ESAT Laboratories. This support should include developing spreadsheets, databases, and limited programming in an effort to increase sample production and minimize transcription errors.

### **Chemical Inventory**

The contractor shall provide support in defining chemical inventory process with EPA staff and shall attend meetings (2 ESAT staff members) when called to discuss the chemical inventory process. This support should include but is not limited to identifying and documenting all chemical information to the Chemical Inventory System, coming in and deleting expired standards and chemicals that will provide the information to all sections and departments, investigators and others responsible for preparing hazardous materials inventories for compliance with regulations.

## Task 3: Training

The contractor may be required to attend training under this TO. The type of training and number of staff required to attend the training will be specified in a TDF. Training includes, but is not limited to, topics such as QA training, laboratory ethics, and laboratory health and safety.

## STATEMENT OF WORK - TASK AREA II: QA/QC SUPPORT

### Task 1: Develop and/or Review Analytical Methodologies

The contractor shall provide technical support in the development and/or review of analytical methodologies and protocols including technical specifications for new or non-CLP methods and related QA activities. This shall require the contractor to perform research on specific topics, including literature search in pertinent journals and publications, obtaining information from the scientific community, performing the method development, validating the results, preparing an SOP and generating data of known quality, adequate for its intended use and thoroughly documented.

The objective of this task will be to verify the acceptable performance of the analytical method, analytical instrumentation and the adequacy of the QA/QC procedures developed. The contractor shall use its expertise to execute the evaluation of the method.

## **NELAC Accreditation**

The Region 2 Laboratory is NELAC accredited. The contractor shall implement a comprehensive QA/QC program that adheres to the most current NELAC standards. The contractor must maintain NELAC accreditation for all laboratory methods and procedures used. Initially, the NELAC standards are applied to the most commonly used laboratory methods, procedures and documentation to achieve NELAC accreditation. Eventually, all analytical methods, procedures and documents used by the ESAT contractor must be NELAC accredited and/or compliant.

## **Deliverables**

The contractor must submit to the TOPO, a written report documenting the results of the analytical method developed or evaluated under this task and originals of all necessary documentation to maintain NELAC accreditation. The deliverables will be specified via TDF, email, or in an existing SOP with similar technical requirements or protocols This will include but not be limited to: PT, MDL and DOC results; SOPs, and related documents; laboratory audit results, using the latest version of the NELAC check list; corrective action plans and forms.

The contractor Management and Quality Assurance Officer will meet with the TOPO bi-weekly or as needed to update the EPA concerning the status of the above tasks. The contractor shall submit weekly reports of the status and reimbursable costs under this Task Order to the PO

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### **Acceptance Criteria**

The environmental data generated under the developed analytical methodology shall be of known quality, adequate for its intended use and thoroughly documented.

The quality of the data shall be determined by the compliance with all QA/QC criteria specified in the technical documentation and guidance used by the contractor. Examples are:

- Sample response of instruments within calibration range
- Acceptable matrix spike recovery data
- Method detection limit determination
- Acceptable quality control data for each batch was acceptable.

Adequacy of the data generated by the developed analytical method shall be evaluated based upon technical criteria specified in the TDF. Examples are:

- Data generated will attain the required quantitation limit
- Qualitative identification is technically sound.

The contractor shall document all work performed in accordance with the protocols specified in the TDF or guidance documents used during the method development. All documentation must be adequate with respect to completeness and reproducibility.

### Task 2: Maintenance and Development of Standard Operating Procedures (SOPs)

SOPs are the primary format for documenting the analytical methodologies and technical procedures and protocols used in the Laboratory.

As per the Region 2 Laboratory Quality Management Plan, the contractor shall review and revise, as necessary, all SOPs used for performance of work specified in the contract Statement of Work. Additionally, the contractor shall develop SOPs for new analytical methodologies and procedures.

The contractor shall keep current with the CLP SOW analytical methodologies. The contractor shall perform a review of the relevant CLP SOW analytical methods that pertain to the ESAT Laboratory whenever a new CLP SOW or revision is released.

## **Deliverables**

The contractor shall document and submit a report to the TOPO that describes any significant changes in the CLP SOWs relevant to ESAT's Laboratory methods/procedures.

New SOPs developed by the contractor shall be delivered to the TOPO for review, comment and/or approval.

## **Acceptance Criteria**

Documents prepared must provide sufficient technical information and detail to communicate to a Laboratory analyst the steps necessary to successfully complete all task covered in the SOP and generate data of documented known and acceptable quality.

## <u>Task 3: Maintenance of Demonstration of Capability (DOC) QA and QA Activities</u> <u>Databases</u>

The contractor shall maintain a DOC database and a QA Activities database.

The DOC database shall include, but is not limited to the matrix of the analysis, parameter tested, date on which the DOC was performed, name of Contractor analyst who performed the DOC, and the parameter reporting limit. All DOCs shall be performed using the appropriate EPA SOPs and the Region 2 LQMP.

The QA Activities database shall include, but is not limited to all Laboratory audits performed by the Contractor, Corrective Actions, Limits of Quantitation, PTs performed, and the dates these activities were performed.

## <u>Deliverables</u>

The contractor shall electronically submit a DOCs and QA Activities report to the TOPO no later than the first Monday of each Month.

## Government Quality Assurance Surveillance Plan

Task Area I – Analytical Support	Performance Requirement	Performance Standard(s)	Acceptable Quality Level (AQL)	Method of Surveillance
Task 1: Task Order Management	Contractor shall prepare and submit weekly reports	Reports shall contain status of all tasks, estimated labor hours for all tasks	Reports should be 100% complete	PO/TOPO will evaluate the report for completeness
Task 1: Task Order Management		Report shall be submitted to the PO every Wednesday by COB	Report should be submitted on time no less than 98% of the time	PO/TOPO will review reports submitted for timeliness
Task 1: Task Order Management	Analytical deliverables are submitted with a cover letter	Analytical deliverables contain a cover letter	Analytical deliverables shall contain a cover letter no less than 100% of the time	TOPO will evaluate analytical deliverables for completeness
Task 1: Task Order Management	Analytical deliverables are peer reviewed	All analytical deliverables are peer reviewed and the peer review is performed at a technical level appropriate to the data and the review is technically sound	Analytical deliverables are peer reviewed no less than 100 % of the time and peer review is conducted at the appropriate technical level	TOPO will evaluate the analytical deliverables for compliance with peer review criteria and for evidence the peer review was conducted at the appropriate technical level
Task 1: Task Order Management	Contractor will notify the TOPO/PO whenever completion of a task or submission of deliverable will not meet the schedule	Contractor will notify the TOPO/PO in writing or e-mail of failure to meet a scheduled due date. All missed dates will be reported in the Monthly Performance Evaluation Reports	Notification received by the TOPO/PO at least two (2) business days before the deliverable due date	TOPO/PO will track the status of tasks in progress or deliverables and evaluate the timeliness of the notification and report all missed dates whether or not there was an excusable delay in the Monthly Performance Evaluation Reports.
Task 1: Task Order Management	Contractor will provide justification for the delay and provide revised completion dates.	Justification for delay is due to circumstances beyond contractor control and revised completion dates are reasonable.	The delay was beyond the control of the contractor and the revised completion schedule will allow the deliverable to fulfill the task requirements.	The TOPO will evaluate the status of tasks in progress and completion schedule. The PO and/or the CO will evaluate the justification and the revised completion dates.
Task 1:	Determination of	Contractor will prepare and	The contractor shall	TOPO will review
Task Order Management	labor cost/analyses as per the contract	submit monthly a report containing the labor cost analyses	not exceed the contractual	and evaluate reports for conformance

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SOW, preparation of	as per contract SOW and labor	cost/sample analyses	with the delivery criteria.
a report/form for	cost/analyses per batch of	(eg organics, and	
each batch of	samples during the reporting	inorganics)	
analyses completed during the reporting period. Compliance with the computed labor cost/analyses per batch of analyses.	period.		

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Task Area I – Analytical Support	Performance Requirement	Performance Standard(s)	Acceptable Quality Level (AQL)	Method of Surveillance	
Task 2: Analytical Support	Contractor shall perform environmental sample analyses designed to meet the mission of the EPA Region 2. Sample analysis includes sample preparation, sample analysis, reporting results and documentation of all analytical activities.  Data of known quality will be generated by compliance with all QA/QC criteria specified in technical documentation, e.g. SOPs, and guidance used by the contractor.  Documentation that samples were analyzed correctly (as per the SOP or method used) must exist.		Analyses will be performed compliant with the sample analysis procedures and protocols specified in the technical documentation. Documentation that samples were analyzed appropriately as per the appropriate SOPs and R2 LQMP will be no less than 100% complete.	The TOPO will evaluate the raw data/data results and reports for evidence the analyses were performed in strict conformance with the stated requirements and met the QA/QC criteria as required by the appropriate SOPs and R2 LQMP.	
Task 2: Analytical Support	Adequacy of the data for its intended use	Analytical data will conform with the criteria specified in the SOPs TDFs, or e-mail; e.g. appropriate reporting limits, special instruction followed, special reporting limits achieved, appropriate analytes determined	Analytical data must conform to the criteria specified in the SOPs or TDF	The TOPO will evaluate the analytical data for conformation of compliance with criteria specified in the SOPs or TDF	
Task 2: Analytical Support	Documentation of all work performed	All analytical work will be documented in accordance with the protocols specified in the SOPs and guidance documents. Records must be adequate with respect to completeness and reconstructability.	Documentation will be complete and in sufficient detail to be able to reconstruct all aspects of the work.	The TOPO will evaluate the documentation for compliance with the record keeping requirements in SOPs and guidance documents.	
Task 2: Analytical Support	Submission of deliverables	Timeliness: analytical deliverables will be submitted within 3 business days (or less, if stated in TDF) prior to the due date listed on the Project Status Report.	Analytical deliverables are submitted three (3 ) business days before the due date indicated on the Project Status Report.	The TOPO will review and evaluate deliverables for conformance with delivery criteria	

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Task Area I – Analytical Support	Performance Requirement	Performance Standard(s)	Acceptable Quality Level (AQL)	Method of Surveillance
Task 2: Analytical Support		Contractor will perform the work in compliance with the computed labor cost/analyses per batch specified in the TDF based on the environmental samples to be analyzed.	The contractor will perform the assigned tasks within the computed labor cost/ analyses per batch no less than 95 % of the time. A batch shall be defined as 20 environmental samples	The TOPO will review and evaluate contractor compliance for conformance with the specified labor cost/ analyses per batch.
Task 2: Analytical Support	Contractor maintains and provides documentation of completion of demonstration of capability for all analytical work performed.	Contractor will prepare and submit documentation of completion of demonstration of capability according to NELAC - Quality Systems Appendix C. Documentation will include signed statement of completion and all data generated during the demonstration of capability.	Documentation of completion of the demonstration of capability will be provided for no less than 95 % of the time.	The TOPO will review and evaluate the submission of the documentation of the demonstration of capability
Task 2: Analytical Support		All technical requirements specified in the NELAC - Quality Systems Appendix C.	Technical requirements will be performed compliant with the criteria specified in NELAC.	The TOPO will review and evaluate contractor compliance for conformance with the specified criteria.
Task 2: Analytical Support	Method Detection Limit (MDL) determinations will be performed according to EPA SOP G-8.	All technical requirements specified in the <u>SOP</u> will be completed for all analytes/parameters on all instruments.	Technical requirements will be performed according to the criteria specified in the procedure	The TOPO will review and evaluate contractor compliance for conformance with the criteria specified in the procedure.
Task 2: Analytical Support	Method Detection Limit (MDL)	MDL determinations will be performed under the conditions specified in the SOP or Laboratory Quality Management Plan.	The contractor will perform MDL determinations when there is new methodology, a significant change in methodology, or instrumentation.	The TOPO will track the completion of MDL determinations to ensure conformance.
Task 2: Analytical Support	Method Detection Limit (MDL)	The contractor will submit documentation of the completion if the Method Detection Limit studies. Documentation will include a summary report for analyte/parameter/instrument results plus all analytical data generated.	Documentation of the Method Detection Limit determination will be provided no less than 95 % of the time.	The TOPO will review and evaluate the submission of the documentation of the Method Detection Limit determination.

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	Task Area I – Analytical Support	Performance Requirement Standard(s)		Acceptable Quality Level (AQL)	Method of Surveillance
	Task 2: Analytical Support	Laboratory Information Management System (LIMS) contractor peer review and validation of the analyses in the LIMS data system.	All environmental sample data in electronic format -LIMS will be peer reviewed and the analyses validated electronically.	LIMS peer review and validation of the analyses will be completed no less than 98 % of the time.	The TOPO will evaluate the compliance for peer review and validation of the analyses by checking each project in the LIMS
	Task 2: Analytical Support	*.	Data verified by an independent peer reviewer for accuracy and completeness.	Data verified for accuracy no less than 98 % of the time. Data verified for completeness no less than 98 % of the time.	The TOPO will evaluate compliance for accuracy and completeness checks for each LIMS project.
- 1	Task Area II – QA/QC Support	Performance Requirement	Performance Standard(s)	Acceptable Quality Level (AQL)	Method of Surveillance
	Task 1: Develop and/or Review Analytical Methodologies	The contractor shall conduct method development and provide technical support for new procedures and related QA activities.	Method development shall be conducted in strict conformance with specific requirements provided by the EPA to include verification of acceptable performance of the analytical method, analytical instrumentation and the adequacy of the QA/QC	Analytical methods developed will be 98 % compliant with the criteria and specific requirements provided by EPA	The TOPO will evaluate the method development results for compliance with the technical requirements provided.
	Task 1: Develop and/or Review Analytical Methodologies	Method development will be adequately documented.	Documentation and records must be adequate and complete to allow analysts with appropriate technical knowledge to reproduce the results.	The documentation and records will be no less than 98 % complete and in sufficient detail to be able to reconstruct all aspects of the work.	The TOPO will review and evaluate the documentation and records for compliance with the criterion of reconstructibility.
	Task 2: Maintenance and Development of Standard Operating Procedures (SOPs)	Contractor will review and implement SOPs for all laboratory methods, procedures and protocols.	SOPs will contain sufficient technical information and details to allow a Laboratory analyst to complete all tasks covered in the SOP and generate data of known and acceptable quality.	Over 98 % of the time, SOPs will allow a laboratory analyst to reproduce the procedure and generate data of known and acceptable quality.	The PO and/or TOPO will periodically select SOPs for review and audit for compliance.
1	Task 3: Maintenance of Demonstration of Capability (DOC) QA Report and QA Activities	QA Activities and DOCs Reports	The contractor will submit monthly QA Activities and DOC Status reports. The QA Activities Status report will include the status of pending QA activities (i.e. corrective actions, internal audits, etc). The DOC Status report will include the status of pending and recently performed DOCs.	The contractor will submit the QA Activities and DOC status Reports on the first Monday of the month no less than 98% of the time. Report will be no less than 98% complete and accurate.	The TOPO will review and evaluate the report.

## STATEMENT OF WORK- TASK AREA III: OSCAR STATION OPERATION (SUPERFUND)

## Task 1: Logistical and Administrative Support

The contractor shall provide support for operation of the Region's Official Sample Control and Repository (OSCAR) Station and the Laboratory Information Management System (LIMS) as per the applicable SOPs (eg, OSCAR, Waste Disposal, etc.) and the Region 2 LQMP.

The contractor shall ensure that all personnel performing work under this task area shall be appropriately trained to perform the activities as specified in the SOP.

- The contractor must have staff available between 7am ET and 6pm ET who can perform sample log-in.
- The contractor shall receive samples at the OSCAR station and notify the Task Order Project Officer (TOPO) or designee of sample receipt.
- The contractor will open and remove samples from coolers and verify sample receipt against chain-of-custody (COC) and field data sheets.
- If any sample shipment is received with a broken chain of custody seal(s), with broken or leaking vials or bottles, or with missing samples, the contractor will immediately notify the TOPO.
- The contractor will add sample number and project number to each bottle with appropriate label. Sign the COC, adding date and time of receipt in accordance with the OSCAR SOP.
- The contractor will maintain an OSCAR Project Tracking Log and an OSCAR Sample Tracking Log in either hard copy or electronic format. If an electronic version is used, steps must be taken to secure the electronic file and create a daily backup.

Support functions will include receipt and logging of samples for analysis, and maintenance of sample related documentation, including chain of custody records. In addition, the contractor shall enter analytical data into the LIMS, use the LIMS to generate reports, and archive data files.

The contractor shall provide administrative support for the operation of the Laboratory Information Management System (LIMS). Support will include but not be limited to "Analysis Codes" maintenance and creation, archiving, calculation codes, generating and creating reports, and general LIMS administration.

The contractor shall monitor and record oven temperatures, refrigerator temperatures and balance performance on a daily basis or as required by applicable SOPs.

The contractor shall record, organize, label, copy and file records pertaining to Superfund projects. The Contractor shall also maintain documents and records pertinent to project completion. The contractor shall dispose of all Region 2 Laboratory (US EPA and ESAT) waste generated during the extraction, preparation, and analysis of environmental samples as well as complete the hazardous waste forms for various wastes. It is estimated that the waste should be disposed of at a minimum of twelve (12) times per year (twenty-four times per year for organic waste).

The contractor shall also dispose of environmental samples received by the Region 2

Laboratory for analyses.

All environmental waste and samples must be disposed of in accordance with the Region 2 LQMP and applicable SOP.

The contractor shall maintain the chemical inventory database for the Region 2 Laboratory.

Support under this task assignment is limited to samples and analytical data relating to Superfund sites. As such, the contractor shall track tasks which are defined as site specific or task specific. The contractor shall track the status of the tasks, labor hours, and costs for the cost reimbursable portion. The contractor shall provide the PO and the TOPO with weekly reports for the above referenced data.

The contractor may be required to attend 26 meetings or conferences calls with the TOPO and/or PO for planning and coordinating activities. All work shall be completed in accordance with this Statement of Work, LQMP, including all referenced SOP(s) and documentation. No deviation from the Statement of Work or SOPs shall be made without prior approval.

The contractor shall follow the detailed technical procedures specified in the applicable SOPs.

### **Documentation**

SOPs and Guidelines Available to the Contractor

For the support activities as defined in this Task, activities are to be accomplished using the basic methods as described in the current OSCAR SOP and Waste Disposal SOP:

Excerpts from the current OSCAR SOP are listed below as:

#### Subject

- 1. Sample Handling
- 2. Sample Storage
- 3. Safety
- 4. Procedures

Accessing LIMS
Location Set-up/Modification
Analysis Codes/Modification
Sample Log-in/Modification
Manual Data Entry
ESAT Data
Final Reports
ESAT Sample Flow Chart
Area and File Management

5. Quality Control

### **Deliverables:**

The content, format, and schedule of deliverables are specified in the current OSCAR SOP.

Deliverables include:

Sample Receipt form, Final LIMS report, Sample LIMS status reports (Active Project List)

It is estimated that **5200** samples will be accepted for this contract year.

### Task 2: Glassware Washing

The contractor shall perform the laboratory glassware washing in accordance with rigid, Regional QA/QC requirements specified in TOs and references SOPs. The contractor shall complete all washing, drying and preparation activities and place clean glassware in the designated storage areas within time frames that assure an adequate inventory of clean glassware. Glassware cleaning, washing, and soaking procedure may require the handling and/or use of concentrated and/or diluted acids (e.g., Hydrochloric Acid, Sulfuric Acid) or bases (e.g., Sodium Hydroxide, Hydrogen Peroxide). The use and operation of commercial dishwashers and hot-air ovens are required. The use of baking ovens is required for Organic Analysis glassware only. Perform daily/monthly, or as needed, preventive maintenance of the washer unit. Glassware residue pH check must be performed once daily on a piece of glassware from a completed wash cycle by the Bromothymol blue method.

The contractor shall clean and dry the sample coolers for return. Only coolers with pre-labeled labels will be returned. The coolers recipient should be charged for shipping fees.

## Task 3: Training

The contractor may be required to attend training. The type of training and the staff required to attend the training will be specified in writing and will be in accordance with Contract Number EP-W-07-083.

## Contract # EP-W-07-083 Task Order # 26 rev.1

September 26, 2011 – September 25, 2012 TOPO: Ness Tirol

## Government Quality Assurance Surveillance Plan (QASP)

Task Area	Performance Requirement	Performance Standard(s)	Acceptable Quality Level	Method of Surveillance
Task Area 1: Logistical and Administrative Support	Samples shall be received in accordance to SOW	Verify sample against chain of custody and field data sheet	During the performance period 100% of the samples should be verified	The TOPO will review weekly and/or monthly reports or logbooks
	Samples checked for accuracy, temperature, preservationetc according to the current OSCAR SOP	Samples containers are opened and samples removed in accordance with the SOP	100% of the sample shipments must be properly verified.	The TOPO will conduct periodic checks of contractor's performance.
according to the current OSCAR SOP receipt (excluding short holding time SHT parameters), relinquish custod samples to OSCA sample coordinate.		- within 3 hours of receipt (excluding short holding time-SHT parameters), relinquish custody of samples to OSCAR sample coordinator or designee	100% of samples should be released to minimize holding time violations.	Review OSCAR logbooks and/or monthly or weekly reports
	Paperwork checked for accuracy, temperature, preservationetc. In accordance with current OSCAR SOP  Paperwork checked for accuracy, temperature, preservationetc. In accordance with current OSCAR SOP  Timeliness - Within 3 hours (excluding SHT samples), all COC/FDS information should be entered into LIMS at the OSCAR station.  Quality - Uploads and data entered into LIMS should be complete and accurate  Generate electronic data for data package in accordance with current OSCAR SOP  Data package is complete and TOPO notified		100% of samples meet SOP requirements	Review data reports from OSCAR station and/or weekly reports.
			During the performance period 100% of the all sample data should be entered and uploaded into the LIMS.	Review monthly and weekly reports; with additional visual oversight by the TOPO during the performance period.
			None	TOPO reviews the reports generated for completeness and accuracy.
			Electronic data should be 100% accurate and complete	Review data package from the contractor to confirm the required file exist and final reports are accurate and complete

AMENDMENT OF SOLICITATION/MODIF	ICATIC CONTRACT		1. CONTRACT ID CODE	PA	GE OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PROJE	CT NO. (If applicable)
004	See Block 16C	PR-C	SWER-12-00318		
6. ISSUED BY COD		7. ADI	MINISTERED BY (If other than Item 6)	CODE	SRRPOD
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WASHINGTON DC 20460		WASI	HINGTON DC 20460		
8. NAME AND ADDRESS OF CONTRACTOR (No., st		(x) <sup>9A.</sup>	AMENDMENT OF SOLICITATION NO.		
ALION SCIENCE AND TECHNOLOG Attn: (b)(4) 1000 BURR RIDGE PKWY	1 CORPORATION	9B.	DATED (SEE ITEM 11)		
(b)(4)		100	A. MODIFICATION OF CONTRACT/ORDE	D NO	
BURR RIDGE IL 605270849		× E	2. MODIFICATION OF CONTRACT/ORDER 2-W-07-083 026	R NO.	
		101	B. DATED (SEE ITEM 13)		- 4
CODE (b)(4)	FACILITY CODE	0	9/26/2011		
	11. THIS ITEM ONLY APPLIES	S TO AMENDA	ENTS OF SOLICITATIONS		
separate letter or telegram which includes a refereigner THE PLACE DESIGNATED FOR THE RECEIPT Covirtue of this amendment you desire to change and to the solicitation and this amendment, and is received.	nce to the solicitation and amendment OF OFFERS PRIOR TO THE HOUR Al offer already submitted, such change n ved prior to the opening hour and date	numbers. FA ND DATE SPI may be made i	ECIFIED MAY RESULT IN REJECTION OF	TO BE RECEIVED YOUR OFFEI	/ED AT R. If by
12. ACCOUNTING AND APPROPRIATION DATA (If See Schedule	required)	Net Inc	rease:	\$162,28	7.19
	MODIFICATION OF CONTRACTS/OF	RDERS. IT M	ODIFIES THE CONTRACT/ORDER NO. AS	DESCRIBED I	
			SES SET FORTH IN ITEM 14 ARE MADE I		
			MINISTRATIVE CHANGES (such as chang OF FAR 43.103(b).		·
C. THIS SUPPLEMENTAL AGREEM	ENT IS ENTEREO INTO PURSUANT	TO AUTHOR	TY OF:		
D. OTHER (Specify type of modification	on and authority)				
X PURSUANT TO THE LIMITAT	ION OF THE GOVERNMENT'S	OBLIGATI	ONS UNDER TASK ORDERS CLAUS	SE	
E. IMPORTANT: Contractor X is not.	is required to sign this docume	ent and return	0 copies to the iss	uing office.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: (b)(4)	N (Organized by UCF section heading	gs, including s	olicitation/contract sub/ect matter where fe	asible.)	eta da cara da cara da cara da cara de de cara de de decembra de cara de decembra de cara de decembra de cara d
Analytical Services & OSCAF	Station Operations	s (SF)			
TOPO: N. Tirol Max Expire D	ate: 09/25/2014				
The purpose of this modific	ation is to obligat	te fund	s in the amount of \$16	52,287.1	9, which
now fully funds this task of	order at \$946,937.29	9.			
LIST OF CHANGES:					
Reason for Modification : E	unding Only Action				
Obligated Amount for this N	Modification: \$162,2	287.19			
New Total Obligated Amount	for this Award: \$94	46,937.	29		
Continued					
Except as provided herein, all terms and conditions of	f the document referenced in Item 9A				
15A. NAME AND TITLE OF SIGNER (Type or print)			NAME AND TITLE OF CONTRACTING OF	FICER (Type	or print)
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNE		UNITED STATES OF AMERICA		16C. OATE SIGNED
(Signature of person euthorized to sign)		_	(Signature of Contracting Officer)		16/17/12

STANDARO FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

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CONTINUATION SHEET	EP-W-07-083/0026/00	4	2	2

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE	AMOUNT (F)
\A)	Incremental Funded Amount changed: from		(2)	\ 15 J	( + )
	\$784,650.10 to \$946,937.29				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	12-T-72BS-303DD2-2505-HQ00LA00-1272BS5030-001 Beginning FiscalYear 12	- 4		e, i	
	Ending Fiscal Year				7
	Fund (Appropriation) T				* .
	Budget Organization 72BS DCN ID: 1272BS5030-001				
	Amount: \$162,287.19				a .
	Period of Performance: 09/26/2011 to 09/25/2012				
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2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PR	USECT NO. (If applicable)
003	See Block 16C	PR-S	RRPOD-12-00276		
6. ISSUED BY CODE	SRRPOD	7. ADN	MINISTERED BY (If other than Item 6)	CODE	SRRPOD
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OPERATIONS		1	RATIONS	OOM	
1200 PENNSYLVANIA AVE NW			PENNSYLVANIA AVE NW		
WASHINGTON DC 20460			IINGTON DC 20460		
8. NAME AND ADDRESS OF CONTRACTOR (No., street	t, county, State and ZIP Code)	(x) 9A.	AMENDMENT OF SOLICITATION NO.		
ALTON COTTNET THE MEGUNOLOGY	CODDODAMION				
ALION SCIENCE AND TECHNOLOGY Attn: (b)(4)	CORPORATION	OR	DATED (SEE ITEM 11)		
1000 BURR RIDGE PKWY			DATED (GEETTEW TT)		
b)(4)					
BURR RIDGE IL 605270849		x 10/	MODIFICATION OF CONTRACT/ORDER	NO.	
DORK KIDGE II 003270049					
			26 DATED (SEE ITEM 13)		
CODE (b)(4)	TEACH ITY CORE	_			
CODE (C)(T)	FACILITY CODE	0	9/26/2011		The second second second
	11. THIS ITEM ONLY APPLIES TO	AMENDM	ENTS OF SOLICITATIONS		
The above numbered solicitation is amended as set for					is not extended.
Offers must acknowledge receipt of this amendment					
			eipt of this amendment on each copy of the c		
separate letter or telegram which includes a reference					
THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an offer					
to the solicitation and this amendment, and is received			, in a second control of the second control		Tando Foloronios
12. ACCOUNTING AND APPROPRIATION DATA (If rec	quired) Net	t Inc	rease: \$	110.5	570.60
See Schedule			<u> </u>		
13. THIS ITEM ONLY APPLIES TO M	ODIFICATION OF CONTRACTS/ORDE	RS. IT MC	DIFIES THE CONTRACT/ORDER NO. AS D	ESCRIBE	D IN ITEM 14.
A THIS CHANGE ORDER IS ISSUED I	PURSUANT TO: (Specify authority) THE	E CHANG	ES SET FORTH IN ITEM 14 ARE MADE IN	THE CON	ITRACT
ONDER NO. IN THE IN TOX.					
B. THE ABOVE NUMBERED CONTRAC	CT/ORDER IS MODIFIED TO REFLECT	THE ADI	MINISTRATIVE CHANGES (such as change: OF FAR 43.103(b).	s in payin	g office,
appropriation date, etc.) SET FOR IT	TIN TEM 14, FURSUANT TO THE AU	INORITY	OF FAR 43.103(b).		
C. THIS SUPPLEMENTAL AGREEMEN	IT IS ENTERED INTO PURSUANT TO	AUTHORI	TY OF:		
D. OTHER (Specify type of modification	and authority)				
X UNILATERAL PURSUANT TO TH	E LIMITATION OF THE GOVE	RNMENT	'S OBLIGATIONS UNDER TASK OF	RDERS (	CLAUSE
E. IMPORTANT: Contractor X is not,	is required to sign this document ar	nd return	copies to the issuir	na office	
14. DESCRIPTION OF AMENDMENT/MODIFICATION	(Organized by UCF section headings in	ncludina si		•	
DUNS Number: (b)(4)	7	oraumg o	montalist reconnect subject metter timere read		
Analytical Services & OSCAR	Station Operations (	SE)			
TOPO: N. Tirol Max Expire Da		DI /			
10FO. N. IIIOI MAX EXPITE DA	te: 09/25/2014				
The purpose of this modifica	tion is to obligate	fundi	ng in the amount of \$1	10,5	70.60 to
this task order. These fund	s are being transfer	red f	rom the following task	ord	ers:
Task Order 12 in the amount	of \$152.39				
Task Order 18 in the amount					
Task Order 19 in the amount	OI \$14,187.55				
Continued					
Except as provided herein, all terms and conditions of the	e document referenced in Item 9A or 10				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. N	AME AND TITLE OF CONTRACTING OFF	ICER (Ty	pe or print)
		Ros	s Miller		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED		NITED STATES OF AMERICA		16C. DATE SIGNED
ISB. CONTRACTORVOFFEROR	ISO. DATE SIGNED	100.0			IOO. DATE SIGNED
			1/ wees		5/3/12
(Signature of person authorized to sign)			(Signature of Contracting Officer)	TANDAD	D FORM 30 (REV. 10-83)

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243 CONTINUATION SHEET REFERENCE NO. OF \_\_MENT BEING CONTINUED PAGE OF 2 2

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Task Order 22 in the amount of \$19,560.34				
	Task Order 23 in the amount of \$31,347.40				
	Task Order 24 in the amount of \$27,078.41				
	All other terms and conditions remain the same.			,	
	Obligated Amount for this Modification:		1		η <b>γ</b> ο
	\$110,570.60				
	New Total Obligated Amount for this Award:		1	10.0	
	\$784,650.10 Incremental Funded Amount changed: from				
	\$674,079.50 to \$784,650.10				
					,
	CHANGES FOR ACCOUNTING CODE:				
	11-T-72BS-302DD2C-2505-HQ00LA00-1172BS5047-001				1
	Amount changed from \$284,079.50 to \$288,657.77			1	
	NEW ACCOUNTING CODE ADDED:				4
	Account code:			<u>'</u>	
	09-T-72BS-302DD2C-2505-HQWQLA00-0972B9S027-001	1			
	Beginning Fiscal Year 09				
	Fund (Appropriation) T	1 .			
	Budget Organization 72BS	1	ŀ		
	Amount: \$152.39		ŀ		
	NEW ACCOUNTING CODE ADDED:	1			
	Account code:	1	ŀ		190
	11-T-72BS-302DD2C-2505-HQ00LA00-1172BS5034-001		1	2	
	Beginning Fiscal Year 11		1		
	Fund (Appropriation) T				
	Budget Organization 72BS		1		
	Amount: \$103,844.04				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	10-TCD-72BS-302DD2C-2505-HQWQLA00-1072B0S520-002				
	Beginning Fiscal Year 10		1		10
	Fund (Appropriation) TCD				
	Budget Organization 72BS				
	Amount: \$1,995.90				
	Period of Performance: 09/26/2011 to 09/25/2012				
	101104 01 101101111111000 05/11/11111 00 15/10/1011				
		1			
	The contractor shall not exceed the current	-			
	limitation of the Government's obligation under			, pa	
	this task order without prior written		1		
	authorization from the contracting officer.				
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AMENDMENT OF SOLICITATION/MODIFIC	CATI—— CONTRACT	1. CONTRACT ID CODE PAGE OF PAGES
AMENDMENT OF SOLICITATION/MODIFIC		1 1
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)
002	See Block 16C	PR-OSWER-12-00093
6. ISSUED BY CODE	SRRPOD	7. ADMINISTERED BY (If other than Item 6) CODE SRRPOD
SRRPOD		SRRPOD
US ENVIRONMENTAL PROTECTION	AGENCY	US ENVIRONMENTAL PROTECTION AGENCY
SUPERFUNDRCRA REGIONAL PROCU	JREMENT	SUPERFUNDRCRA REGIONAL PROCUREMENT
OPERATIONS		OPERATIONS
1200 PENNSYLVANIA AVE NW		1200 PENNSYLVANIA AVE NW
WASHINGTON DC 20460  8. NAME AND ADDRESS OF CONTRACTOR (No., stree	et county State and 7/D Codol	WASHINGTON DC 20460  (A) 9A AMENDMENT OF SOLICITATION NO.
O. 14 MIL DIED OF CONTINUOUS (NO., SIRE	i, county, State and 21" Code)	(X) X. T. MILITADINE IT OF COLIOTIATION INC.
ALION SCIENCE AND TECHNOLOGY	CORPORATION	
Attn: (b)(4)		9B. DATED (SEE ITEM 11)
LOOO BURR RIDGE PKWY		
b)(4)		10A. MODIFICATION OF CONTRACT/ORDER NO.
BURR RIDGE IL 605270849		x EP-W-07-083
		0026
		10B. DATED (SEE ITEM 13)
CODE (b)(4)	FACILITY CODE	09/26/2011
	11. THIS ITEM ONLY APPLIES	TO AMENDMENTS OF SOLICITATIONS
separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an off to the solicitation and this amendment, and is received.	e to the solicitation and amendment n OFFERS PRIOR TO THE HOUR AN er already submitted, such change mand ad prior to the opening hour and date:	owledging receipt of this amendment on each copy of the offer submitted; or (c) By numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT ND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by nay be made by telegram or letter, provided each telegram or letter makes reference specified.
12. ACCOUNTING AND APPROPRIATION DATA (If re	quired)	
See Schedule		
		RDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.
CHECK ONE A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority)	THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT
B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORT	CT/ORDER IS MODIFIED TO REFLE H IN ITEM 14, PURSUANT TO THE	ECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, AUTHORITY OF FAR 43.103(b).
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C. THIS SUPPLEMENTAL AGREEME	VI IS ENTERED INTO PURSUANT I	TO AUTHORITY OF:
D. OTHER (Specify type of modification	1 and authority)	
	T is required to sign this degrees	and column and column and column affine
E. IMPORTANT: Contractor 🗵 is not,	is required to sign this documen	
DUNS Number: (b)(4)	I (Organized by OCF section neading	gs, including solicitation/contract subject matter where feasible.)
TOPO: N. Tirol Max Expire Da	ata: 09/25/2014	
Reason for Modification: Oth		Action
Reason for Modification: Other	ier Administrative	ACCION
The purpose of this administ	rative modificatic	on is to increase the ceiling from $\sqrt{(b)(4)}$
		d estimated cost for this order. All other
terms and conditions remain		
Period of Performance: 09/20		12
refrod of refromance. 6372.	7/2011 00 03/20/201	
Event as provided basein all tarms and conditions of	the decument referenced in them CA -	or 10A as heretofore changed, remains unchanged and in full force and effect
Except as provided herein, all terms and conditions of 15A. NAME AND TITLE OF SIGNER (Type or print)	The adduttient reletericad in Item 9A 0	or 10A, as heretofore changed, remains unchanged and in full force and effect.  16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
TOTAL THE CIT CHOILE (Type Or plint)	9.	
		Ross Miller
15B. CONTRACTOR/OFFEROR	15C, DATE SIGNE	ED 16B. UNITED STATES OF AMERICA 16C. DATE SIGNED
		1/1/N/W/ 1/11/12
(Signature of person authorized to sign)		(Signature of Contracting Officer)
NON 7540 04 452 9070		STANDARD FORM 30 (REV/10-83)

STANDARD FORM 30 (REV/ 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

Attn: (D)(A)  BURR RIDGE LL 605270849    SA MODPICATION OF CONTRACT/ORDER NO.   SP-N-07-083	AMENDMENT OF SOLICITATION/MODIFIC	ATICE CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES
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SREPOD US ENVIRONMENTAL Protection Agency US Environmental Protection Agency US Enviro	001	See Block 16C	PR-C	SWER-12-00093		
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The above numbered solicitation is amended as set for in the 14. The torus and date specified for receipt of Offers must acknowledge receipt of this amendment prior to the hour and date specified for receipt of Offers must acknowledge receipt of this amendment prior to the hour and date specified for the solicitation or as amended by one of the following methods: (ally completing themse 3 and 15, and returning copies of the amendment prior to the hour and date specified in the solicitation or as amendment, by one of the following methods: (ally completing themse 3 and 15, and returning copies of the amendment prior to the hour and date specified prior prior to the offer submitted, or (all by acknowledge) precipit of the offer submitted. (all by acknowledge) precipit prior prior to the offer amendment prior to the opening prior and date specified.  12. ACCOUNTING AND APPERSON and offer already submitted, such change may be made by talegram or letter, provided each talegram or letter makes reference to the selection of the three prior to the opening hour and date specified.  12. ACCOUNTING AND APPERSON AND APPERSON MODIFICATION OF CONTRACTISCREERS. IT MODIFIES THE CONTRACTISCREER NO. AS DESCRIBED INITIEM 14.  OMECKINE  13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTISCREERS. IT MODIFIES THE CONTRACTISCREER NO. AS DESCRIBED INITIEM 14.  OMECKINE  14. THIS CHANGE OPER IS SUPPLIBED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, epopolypation date, etc.) SET FORTH IN ITEM 14. PRESSUMN TO THE AUTHORITY OF FAR 43 (call).  15. THE ABOVE NUMBERED CONTRACTISCREER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, epopolypation date, etc.) SET FORTH IN ITEM 14. PRESSUMN TO THE AUTHORITY OF FAR 43 (call).  16. THERE (Specify bype of modification and submitted)  17. DETERMINENTIAL AGREEMENT IS ENTERED TO PURSUANT TO AUTHORITY OF:  18. DETERMINENTIAL AGREEMENT IS ENTERED TO PURSUANT TO THE AUTHORITY OF:  18. DETERMINENTIAL AGREEMENT IS ENTERED TO PURSUANT TO	SRRPOD  US Environmental Protection Superfund/RCRA Regional Proc Operations 1200 Pennsylvania Ave, NW Washington DC 20460 8 NAME AND ADDRESS OF CONTRACTOR (No., street) ALION SCIENCE AND TECHNOLOGY Attn: (b)(4) 1000 BURR RIDGE PKWY b)(4)	SRRPOD Agency urement county, State and ZIP Code)	SRR US Sup Ope 120 Was:  (X) 9A  yes 100 Was:	POD Environmental Protect erfund/RCRA Regional rations 0 Pennsylvania Ave, 1 nington DC 20460 AMENDMENT OF SOLICITATION NO.  DATED (SEE ITEM 11)  A MODIFICATION OF CONTRACT/ORD 2-W-07-083 026	ion Ag Procur	gency
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CONTINUATION SHEET	EP-W-07-083/0026/001			2	2

NAME OF OFFEROR OR CONTRACTOR

ALION SCIENCE AND TECHNOLOGY CORPORATION

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)		AMOUNT (F)
	Account code: 12-T-72BS-303DD2-2505-HQ00LA00-1272BS5007-001 Beginning FiscalYear 12				
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IMPORTANT:	Mark all	packages and papers with	contract a	nd/or ord	ler numbers.					1		21
1. DATE OF OR	DER	2. CONTRACT NO. (If any) EP-W-07-083							6. SHIP TO:			
09/26/20	11	FE-M-01-082				a. NAME	OF CO	NSIGNEE				
3. ORDER NO. 0026					EFERENCE NO. .1-00570	Kim B	ran	don-Bazile				
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### ORDER F SUPPLIES OR SERVICES SCHOOLE - CONTINUATION

PAGE NO

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IMPORTANT: Mark all packages and papers with contract and/or order numbers. CONTRACT NO. DATE OF ORDER ORDER NO. EP-W-07-083 0026 09/26/2011 QUANTITY UNIT ITEM NO. SUPPLIES/SERVICES UNIT **AMOUNT** QUANTITY PRICE ORDERED ACCEPTED (a) (e) (f) (b) (c) (g) Admin Office: SRRPOD US Environmental Protection Agency Superfund/RCRA Regional Procurement Operations 1200 Pennsylvania Ave, NW Washington DC 20460 Accounting Info: 11-T-72BS-302DD2C-2505-HQ00LA00-1172BS5047-0 01 BFY: 11 Fund: T Budget Org: 72BS Program (PRC): 302DD2C Budget (BOC): 2505 Job #: HQ00LA00 DCN - Line ID: 1172BS5047-001 Period of Performance: 09/26/2011 to 09/25/2012 0001 ESAT Funding - Region 2 - EP-W-07-083 284,079.50 The Statement of Work is attached herein. The current ceiling is \$284,079.50 but is subject to change pending final agreement of the total estimated cost.

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

### TASK ORDER STATEMENT OF WORK ANALYTICAL SERVICES & OSCAR STATION OPERATIONS (SUPERFUND)

#### **Purpose**

The Region 2 Laboratory is committed to producing environmental data of known quality, adequate for its intended use and to thoroughly document all aspects of the data generation. The documentation shall be verifiable and defensible.

#### **Analytical Services**

The contractor's task shall be to perform qualitative and quantitative analyses of samples for EPA Region 2 under the provisions of the ESAT contract Statement of Work and other applicable support functions. Method development and testing, statistical and data management and Quality Assurance/Quality Control (QA/QC) task areas are associated with the analysis of environmental samples and the production of data of known quality and properly documented quality. Each assignment and costs shall be tracked separately and the internal administrative and management activities necessary to perform the services required by this Task Order shall be included in these costs. The contractor shall break out from their weekly and monthly activity report the description of the work accomplished under this Task Order and deliver a copy of the deliverables to the Project Officer (PO) on a weekly basis. The contractor shall be required to complete the assigned tasks to meet three (3) business days before the due date as indicated on the Project Status Report or as directed by the TOPO via Technical Direction Form (TDF) or e-mail. The TDF and e-mail will specify the necessary information relating to Analytical Services and due dates.

#### **OSCAR Station**

The contractor shall provide administrative and logistical support for operation of the Region's Official Sample Control and Repository (OSCAR) Station and the Laboratory Information Management System (LIMS) to EPA Region 2 under the provisions of the ESAT contract Statement of Work and other applicable support functions. The contractor shall break out from their weekly and monthly activity report the description of the work accomplished under this Task Order and deliver a copy of the accomplishments to the Task Order Project Officer (TOPO) and the Project Officer (PO). Internal administrative and management activities necessary to effectively perform the services required by this Task Order shall be tracked separately in the weekly activity report. Specific support functions are outlined in Tasks 1, 2 and 3 and in the contract Statement of Work. Contractor support under this task order is limited to samples and data obtained from Superfund sites.

#### STATEMENT OF WORK - TASK AREA I: ANALYTICAL SUPPORT

#### **Task 1: Task Order Management:**

The contractor shall track the status of the tasks, labor hours, number of samples, type of analyses for each task under this TO and costs for the cost reimbursable portion. The tasks must be defined as either site specific or task specific (site allocatable). The contractor shall

provide the PO and the TOPO with weekly reports for the above referenced data.

The contractor shall maintain a database containing information as it relates to this program for work performed as described in each task area (i.e., I, II, III, and IV) for the Superfund program (e.g., Task Area I - Analytical Support - specific analytical costs by parameter (e.g., VOA, Semi-VOA, Metals, cyanide, etc).

The contractor shall provide the costs for performing specific types of analyses and sample preparation on a monthly basis preferably included in the Monthly Financial Report. This information should include costs for sample handling and management associated with each type (VOA, metals, etc.) of analysis performed. The sample handling and/or sample management costs shall include costs for sample handling, log-in/storage, tracking, reporting, and disposal.

ESAT Team management shall meet with the PO, TOPO and other designated EPA representatives monthly or as needed, to update EPA on the status of tasks, completion schedules and to address any relevant technical issues.

The contractor shall submit all deliverables under this TO to the TOPO with a cover letter identifying each document submitted or task completed.

The contractor shall review all deliverables following the protocols specified in the SOPs used to generate the deliverable. The reviewer must have sufficient technical competence to be able to understand all aspects of the document to be reviewed and to have not been significantly involved in the generation of the data and the preparation of the deliverable. The reviewer shall assure each deliverable is accurate, technically sound and free from transcription errors. If such a review cannot be performed on any deliverable, the contractor shall notify the PO and the TOPO prior to the submission of the deliverable.

The contractor shall immediately notify the PO and the TOPO as soon as it is determined that a schedule for the completion of any task or submission of any deliverable may not be met. This notification shall be submitted via e-mail with justification and revised completion dates for the approval of the TOPO, PO/Alternate PO and/or the Contracting Officer (CO.) If a deliverable cannot be submitted by the deliverable completion date, the TOPO and PO/Alternate PO must be notified at least two (2) business days prior to the completion date.

This statement of Work is subject to change based on changing priorities and workload fluctuations. The contractor may be required to make changes to accommodate the Agency's changing needs. The Agency shall revise the SOW as necessary.

The Contractor shall notify the CO and PO when 85% of funding for this Task Order has been expended.

#### **Deliverables**

The contractor shall submit to the PO and the TOPO weekly reports with narratives of all current contract activities, including administrative and management highlights. Each table and/or

report should identify activities by Task Orders and/or Technical Direction Form No.. The reports shall be submitted on Wednesday for the preceding weekly period.

The weekly reports should include:

- · ongoing, suspended, cancelled, work, and completed activities;
- analysis type, start date, due date, and completion date;
- number of samples, estimated hours expended, estimated cumulative hours and staff name:
- estimated hours; and
- cumulative totals for each of the above categories

\*All estimated hours should be annotated at the bottom of the table or chart by an asterisk referencing the affected activity.

The monthly report should include the aforementioned information and including:

- Total hours, dollars, and ODC costs;
- funding ceiling and percentages utilized in each category (i.e. hours, dollars, ceilings, etc); and,
- Cumulative totals for each of the above categories (i.e. hours, dollars, etc).

\*If applicable, all estimates should be annotated at the bottom of the table or chart by an asterisk.

#### **TASK 2: Analytical Support**

#### **Laboratory Sample Analyses**

The contractor shall analyze environmental samples consisting of a wide variety of media for organic and inorganic analytes/parameters including but not limited to volatile and semi-volatile organic compounds, pesticides/PCBs, trace metals, wet chemistry analytes/parameters and other inorganic analytes. New methods and parameters not covered by current standard operating procedures (i.e., Gasoline Range Organics by GC) shall be added as needed. New methods will be identified by TDF and will address a wide variety of media for organic, inorganic, biology and wet chemistry analytes/parameters. Sample analyses shall include qualitative and/or quantitative analysis, as well as sample preparation, extraction, digestion, distillation, measurement, data reduction, data review and reporting as applicable.

The contractor shall analyze environmental samples for analytes/parameters (but not limited to) those listed under the section SOPs and Guidance Documents Reference Available to the Contractor.

Samples will be assigned to the contractor for analysis by means of TDF or e-mail.

All analytical data shall be properly documented and all analytical and technical procedures shall be covered by SOPs or other appropriate form of documentation. The contractor shall perform the assigned sample analyses in accordance with the appropriate SOPs. In the event that unforeseen circumstances require deviation from the technical procedures contained in the

SOPs, alternate technical instructions will be provided in writing.

The contractor must maintain and provide to the TOPO documentation of the completion of initial and continuing demonstrations of capability, Performance Test Samples (PTS) and MDLs for all analytical work performed in a timely manner as per the Region 2 Laboratory Quality Management Plan. MDL studies shall be performed when there is new instrumentation or a significant change in methodology, as per the Region 2 Laboratory Quality Management Plan (LQMP) and appropriate SOP.

Please note that all policies within the Region 2 LQMP must be followed.

#### **Acceptance Criteria**

The environmental data generated and reported shall be of known quality, adequate for its intended use and thoroughly documented. All deliverables shall be submitted to the TOPO within the time frame specified below. All assigned tasks shall be completed within the allocated level of effort as specified in the Government Quality Assurance Surveillance Plan (QASP.) All required QA demonstrations and determinations shall be documented by the contractor and submitted to the TOPO within the time frames specified below.

The quality of the data shall be determined by the compliance with all QA/QC criteria specified in the technical documentation and guidance used by the contractor. Documentation that the samples were analyzed correctly must exist. Examples are:

- Sample response of instruments within calibration range
- Data to show appropriate method used sample matrix spike recovery data, method detection limits, etc.
- Identification of standards used during analysis
- Quality control data for each batch of analyses
- Documentation of contractor peer review of results

Adequacy of the data for its intended use shall be evaluated based upon conformance with criteria specified in the SOPs or TDFs. Examples are:

- Data reported conforms to the SOP/Method reporting limits
- Special instructions on TDFs are carried out appropriately
- Special reporting limits specified on TDFs are attained.

The contractor shall document all work performed in accordance with the protocols specified in the current Region 2 LQMP, SOPs, and National Environmental Laboratory Accreditation Conference (NELAC) Standards. All documentation must be adequate with respect to completeness and reproducibility.

Analytical deliverables (e.g. complete data package) shall be submitted to the TOPO three (3) business days prior to the due date listed on the Project Status Report. The contractor demonstrations of capability, MDL and PTS for all analytical work performed shall be performed according to the current LQMP and NELAC standards.

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#### **Documentation**

#### **SOPs and Guidance Documents Available to the Contractor**

For the Analytical Support activities, as defined in the Task activities are to be performed using the basic methods and technical procedures described in the following documents. This list may not be all inclusive. For example, biological analyses/functions may be performed by the Contractor.

In addition to the method SOPs mentioned below, the following documents must be adhered to:

#### Region 2 Laboratory Quality Management Plan Current NELAC Standards All General SOPs

#### **Wet Chemistry Analyses SOPs**

EPA- B-8.33	Particle Size Analysis – Hydrometer Method
EPA-C-18	Alkalinity (Titrimetric Method)
EPA- C-19	Sulfate (Colorimetric Method)
EPA-C-21	Biological Oxygen Demand
EPA-C-22	Chloride (Titrimetric Method)
EPA-C-24	pH/Corrositivity
EPA-C-28	Cyanide, Total Analysis, (Colorimetric Method)
EPA-C-33	Total Suspended Solids (TSS), Volatile Suspended Solids (VSS)
EPA-C-35	Settleable Solids (Imhoff Cone Procedure)
EPA-C-37	Total Dissolved Solids (TDS) (Gravimetric Method)
EPA-C-40	Total Kjeldahl Nitrogen (as N), (Colorimetric Method)
EPA-C-53	Chemical Oxygen Demand (COD)
EPA-C-68	Total Phosphorous and Orthophosphate (as P) (Colorimetric Method)
EPA-C-79	Nitrate+Nitrite (as N) (Colorimetric Method)
EPA-C-80	Ammonia (as N) (Colorimetric Method)
EPA-C-83	Total Organic Carbon in Aqueous (Combustion/Infrared Detection Method)
EPA-C-88	Total Organic Carbon in Sediments (Combustion/Infrared Detection Method)
EPA-C-93	Flouride by Flow Injection Analysis
EPA-C-94	Anions by Ion Chromatography
EPA-C-96	Hexavalent Chromium
EPA-C-115	Sulfide, Methylene Blue
EPA-C-121	Total Solids/Volatile Solids

#### Inorganic - Trace Metals Analyses SOPs

EPA-C-107	Toxicity Characteristic Leaching Procedure for Metals and Semi-Volatile
	Organic Analysis
EPA-C-109	Metals (ICP/AES Method)
EPA-C-110	Mercury (CVAAS Method)

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EPA-C-112 Trace Elements by ICP-MS

EPA-C-116 Preparation of Aqueous, TCLP

Extracts, Soil/Sediment/Sludge, Waste Oil/Organic Solvents, and

Biological Tissue Matrices by Block Digestion

#### **Volatile Organic Analyses SOPs**

EPA-DW-1	Low Level Volatiles Analysis, (Purge & Trap GC/MS Method)
EPA-C-89	Analysis of Volatile Organic Compounds in Aqueous, Soil/Sediment and
	Waste Oil/Waste Organic Solvents Samples by Purge and Trap GC/MS
EPA-C-106	Toxicity Characteristic Leaching Procedure for Volatile Organic Analysis
	EPA-C-123 Analysis of Volatile Organic Compounds by Automated
	Closed System Purge and Trap GC/MS (Med Level)

#### Semi-Volatile Organic Analyses SOPs

EPA-C-90	Semi-Volatile	s Analysis (GC/MS Method)	
	EPA-C-107	Toxicity Characteristic Leaching Procedure for I	Metals and
	Semi-Volatile	Organic Analysis	

#### Pesticides and Poly Chlorinated Biphenyls (PCBs) Analyses SOPs

EPA-C-66	Cleanup of Sample Extracts by Gel Permeation Chromatography for
	PCB/Pesticide Analysis
EPA-C-91	Pesticides/PCBs (GC-ECD Method)
EPA-C-103	Cleanup of Sample Extracts Using Concentrated Sulfuric Acid for PCB
	Analysis
EPA-C-111	Cleanup of Sample Extracts Using Silica-Gel Column chromatography for
	PCB and Pesticides Analysis
EPA-C-124	Determination of Dissolved Methane, Ethylene and Ethane in Water by
	Headspace GC/FID

#### **Deliverables for Analytical Support**

On a weekly basis the contractor shall submit to the TOPO and the PO a project status report. The report should include the work completed with the completion date and the work pending.

Each sample analysis project submitted to the TOPO shall be identified by site name, LIMS Project Number and contain the final analytical results. The content and format are specified in the SOPs listed above.

Data package deliverables as referenced in the LQMP and SOPs include but may not be limited to:

- Cover letter
- Copy of the Chain-of-Custody documents
- Analytical Checklists/Standards Prep/Run Logs as applicable LIMS Report, and
- All analytical raw data (e.g. instrument printouts, chromatography, bench sheets, etc.), and Cross Reference Sheet, if needed.

The total number of anticipated analyses for the contract year is **9300**. The estimated breakdown is listed below. The breakdown may change due to analytical requests.

The estimated number of analyses to be completed under Wet Chemistry analysis is 3600.

The estimated number of analyses to be completed under Volatile Organic Compound Analyses, including Methane, Ethane, and Ethylene is **2300**.

The estimated number of analyses to be completed under Semi-Volatile Organic Compound Analyses, including 1,4-Dioxane is **500**.

The estimated number of analyses to be completed under Pesticides and Polychlorinated Biphenyls (PCBs) Analyses is **300**.

The estimated number of analyses to be completed under Inorganic - Metals is 2600.

The estimates above are applicable to Task Areas I and II. The contractor's estimate cost should be based on the information in this SOW.

#### Laboratory Information Management Systems (LIMS) deliverables

Data entered into the LIMS must be verified by a second, independent reviewer. After the data have been verified as entered correctly, the reviewer validates the analyses in the LIMS. The TOPO will perform an electronic check to confirm the completion of the peer review and the validation of the analyses by the contractor. The deliverable will be considered submitted when the peer review and validation of the analyses are completed in LIMS.

#### **Laboratory Automation**

The contractor shall provide support in the automation of data reduction and sample analysis for the ESAT Laboratories. This support should include developing spreadsheets, databases, and limited programming in an effort to increase sample production and minimize transcription errors.

#### **Chemical Inventory**

The contractor shall provide support in defining chemical inventory process with EPA staff and shall attend meetings (2 ESAT staff members) when called to discuss the chemical inventory process. This support should include but is not limited to identifying and documenting all chemical information to the Chemical Inventory System, coming in and deleting expired standards and chemicals that will provide the information to all sections and departments, investigators and others responsible for preparing hazardous materials inventories for compliance with regulations.

#### Task 3: Training

The contractor may be required to attend training under this TO. The type of training and number of staff required to attend the training will be specified in a TDF. Training includes, but is not limited to, topics such as QA training, laboratory ethics, and laboratory health and safety.

#### STATEMENT OF WORK - TASK AREA II: QA/QC SUPPORT

#### Task 1: Develop and/or Review Analytical Methodologies

The contractor shall provide technical support in the development and/or review of analytical methodologies and protocols including technical specifications for new or non-CLP methods and related QA activities. This shall require the contractor to perform research on specific topics, including literature search in pertinent journals and publications, obtaining information from the scientific community, performing the method development, validating the results, preparing an SOP and generating data of known quality, adequate for its intended use and thoroughly documented.

The objective of this task will be to verify the acceptable performance of the analytical method, analytical instrumentation and the adequacy of the QA/QC procedures developed. The contractor shall use its expertise to execute the evaluation of the method.

#### **NELAC Accreditation**

The Region 2 Laboratory is NELAC accredited. The contractor shall implement a comprehensive QA/QC program that adheres to the most current NELAC standards. The contractor must maintain NELAC accreditation for all laboratory methods and procedures used. Initially, the NELAC standards are applied to the most commonly used laboratory methods, procedures and documentation to achieve NELAC accreditation. Eventually, all analytical methods, procedures and documents used by the ESAT contractor must be NELAC accredited and/or compliant.

#### **Deliverables**

The contractor must submit to the TOPO, a written report documenting the results of the analytical method developed or evaluated under this task and originals of all necessary documentation to maintain NELAC accreditation. The deliverables will be specified via TDF, email, or in an existing SOP with similar technical requirements or protocols This will include but not be limited to: PT, MDL and DOC results; SOPs, and related documents; laboratory audit results, using the latest version of the NELAC check list; corrective action plans and forms.

The contractor Management and Quality Assurance Officer will meet with the TOPO bi-weekly or as needed to update the EPA concerning the status of the above tasks. The contractor shall submit weekly reports of the status and reimbursable costs under this Task Order to the PO

#### **Acceptance Criteria**

The environmental data generated under the developed analytical methodology shall be of known quality, adequate for its intended use and thoroughly documented.

The quality of the data shall be determined by the compliance with all QA/QC criteria specified in the technical documentation and guidance used by the contractor. Examples are:

- Sample response of instruments within calibration range
- Acceptable matrix spike recovery data
- Method detection limit determination
- Acceptable quality control data for each batch was acceptable.

Adequacy of the data generated by the developed analytical method shall be evaluated based upon technical criteria specified in the TDF. Examples are:

- Data generated will attain the required quantitation limit
- Qualitative identification is technically sound.

The contractor shall document all work performed in accordance with the protocols specified in the TDF or guidance documents used during the method development. All documentation must be adequate with respect to completeness and reproducibility.

#### Task 2: Maintenance and Development of Standard Operating Procedures (SOPs)

SOPs are the primary format for documenting the analytical methodologies and technical procedures and protocols used in the Laboratory.

As per the Region 2 Laboratory Quality Management Plan, the contractor shall review and revise, as necessary, all SOPs used for performance of work specified in the contract Statement of Work. Additionally, the contractor shall develop SOPs for new analytical methodologies and procedures.

The contractor shall keep current with the CLP SOW analytical methodologies. The contractor shall perform a review of the relevant CLP SOW analytical methods that pertain to the ESAT Laboratory whenever a new CLP SOW or revision is released.

#### **Deliverables**

The contractor shall document and submit a report to the TOPO that describes any significant changes in the CLP SOWs relevant to ESAT's Laboratory methods/procedures

New SOPs developed by the contractor shall be delivered to the TOPO for review, comment and/or approval.

#### **Acceptance Criteria**

Documents prepared must provide sufficient technical information and detail to communicate to a Laboratory analyst the steps necessary to successfully complete all task covered in the SOP and generate data of documented known and acceptable quality.

### <u>Task 3: Maintenance of Demonstration of Capability (DOC) QA and QA Activities</u> <u>Databases</u>

The contractor shall maintain a DOC database and a QA Activities database.

The DOC database shall include, but is not limited to the matrix of the analysis, parameter tested, date on which the DOC was performed, name of Contractor analyst who performed the DOC, and the parameter reporting limit. All DOCs shall be performed using the appropriate EPA SOPs and the Region 2 LQMP.

The QA Activities database shall include, but is not limited to all Laboratory audits performed by the Contractor, Corrective Actions, Limits of Quantitation, PTs performed, and the dates these activities were performed.

#### **Deliverables**

The contractor shall electronically submit a DOCs and QA Activities report to the TOPO no later than the first Monday of each Month.

### **Government Quality Assurance Surveillance Plan**

Task Area I – Analytical Support	Performance Requirement	Performance Standard(s)	Acceptable Quality Level (AQL)	Method of Surveillance
Task 1: Task Order Management	Contractor shall prepare and submit weekly reports	Reports shall contain status of all tasks, estimated labor hours for all tasks	Reports should be 100% complete	PO/TOPO will evaluate the report for completeness
Task 1: Task Order Management		Report shall be submitted to the PO every Wednesday by COB	Report should be submitted on time no less than 98% of the time	PO/TOPO will review reports submitted for timeliness
Task 1: Task Order Management	Analytical deliverables are submitted with a cover letter	Analytical deliverables contain a cover letter	Analytical deliverables shall contain a cover letter no less than 100% of the time	TOPO will evaluate analytical deliverables for completeness
Task 1: Task Order Management	Analytical deliverables are peer reviewed	All analytical deliverables are peer reviewed and the peer review is performed at a technical level appropriate to the data and the review is technically sound	Analytical deliverables are peer reviewed no less than 100 % of the time and peer review is conducted at the appropriate technical level	TOPO will evaluate the analytical deliverables for compliance with peer review criteria and for evidence the peer review was conducted at the appropriate technical level
Task 1: Task Order Management	Contractor will notify the TOPO/PO whenever completion of a task or submission of deliverable will not meet the schedule	Contractor will notify the TOPO/PO in writing or e-mail of failure to meet a scheduled due date. All missed dates will be reported in the Monthly Performance Evaluation Reports	Notification received by the TOPO/PO at least two (2) business days before the deliverable due date	TOPO/PO will track the status of tasks in progress or deliverables and evaluate the timeliness of the notification and report all missed dates whether or not there was an excusable delay in the Monthly Performance Evaluation Reports.
Task 1: Task Order Management	Contractor will provide justification for the delay and provide revised completion dates.	Justification for delay is due to circumstances beyond contractor control and revised completion dates are reasonable.	The delay was beyond the contractor and the revised completion schedule will allow the deliverable to fulfill the task requirements.	The TOPO will evaluate the status of tasks in progress and completion schedule. The PO and/or the CO will evaluate the justification and the revised completion dates.
Task 1: Task Order Management	Determination of labor cost/analyses as per the contract	Contractor will prepare and submit monthly a report containing the labor cost analyses	The contractor shall not exceed the contractual	TOPO will review and evaluate reports for conformance

SOW, preparation of a report/form for each batch of	as per contract SOW and labor cost/analyses per batch of samples during the reporting	cost/sample analyses (eg organics, and inorganics)	with the delivery criteria.
analyses completed during the reporting period. Compliance with the computed labor cost/analyses per batch of analyses.	period.		

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Task Area I – Analytical Support	Performance Requirement	Performance Standard(s)	Acceptable Quality Level (AQL)	Method of Surveillance
Task 2: Analytical Support	Contractor shall perform environmental sample analyses designed to meet the mission of the EPA Region 2. Sample analysis includes sample preparation, sample analysis, reporting results and documentation of all analytical activities.	Data of known quality will be generated by compliance with all QA/QC criteria specified in technical documentation, e.g. SOPs, and guidance used by the contractor.  Documentation that samples were analyzed correctly (as per the SOP or method used) must exist.	Analyses will be performed compliant with the sample analysis procedures and protocols specified in the technical documentation. Documentation that samples were analyzed appropriately as per the appropriate SOPs and R2 LQMP will be no less than 100% complete.	The TOPO will evaluate the raw data/data results and reports for evidence the analyses were performed in strict conformance with the stated requirements and met the QA/QC criteria as required by the appropriate SOPs and R2 LQMP.
Task 2: Analytical Support	Adequacy of the data for its intended use	Analytical data will conform with the criteria specified in the SOPs TDFs, or e-mail; e.g. appropriate reporting limits, special instruction followed, special reporting limits achieved, appropriate analytes determined	Analytical data must conform to the criteria specified in the SOPs or TDF	The TOPO will evaluate the analytical data for conformation of compliance with criteria specified in the SOPs or TDF
Task 2: Analytical Support	Documentation of all work performed	All analytical work will be documented in accordance with the protocols specified in the SOPs and guidance documents. Records must be adequate with respect to completeness and reconstructability.	Documentation will be complete and in sufficient detail to be able to reconstruct all aspects of the work.	The TOPO will evaluate the documentation for compliance with the record keeping requirements in SOPs and guidance documents.
Task 2: Analytical Support	Submission of deliverables	Timeliness: analytical deliverables will be submitted within 3 business days (or less, if stated in TDF) prior to the due date listed on the Project Status Report.	Analytical deliverables are submitted three (3) business days before the due date indicated on the Project Status Report.	The TOPO will review and evaluate deliverables for conformance with delivery criteria

Task Area I – Analytical Support	Performance Requirement	Performance Standard(s)	Acceptable Quality Level (AQL)	Method of Surveillance
Task 2: Analytical Support		Contractor will perform the work in compliance with the computed labor cost/analyses per batch specified in the TDF based on the environmental samples to be analyzed.	The contractor will perform the assigned tasks within the computed labor cost/ analyses per batch no less than 95 % of the time. A batch shall be defined as 20 environmental samples	The TOPO will review and evaluate contractor compliance for conformance with the specified labor cost/ analyses per batch.
Task 2: Analytical Support	Contractor maintains and provides documentation of completion of demonstration of capability for all analytical work performed.	Contractor will prepare and submit documentation of completion of demonstration of capability according to NELAC - Quality Systems Appendix C. Documentation will include signed statement of completion and all data generated during the demonstration of capability.	Documentation of completion of the demonstration of capability will be provided for no less than 95 % of the time.	The TOPO will review and evaluate the submission of the documentation of the demonstration of capability
Task 2: Analytical Support		All technical requirements specified in the NELAC - Quality Systems Appendix C.	Technical requirements will be performed compliant with the criteria specified in NELAC.	The TOPO will review and evaluate contractor compliance for conformance with the specified criteria.
Task 2: Analytical Support	Method Detection Limit (MDL) determinations will be performed according to EPA SOP G-8.	All technical requirements specified in the <u>SOP</u> will be completed for all analytes/parameters on all instruments.	Technical requirements will be performed according to the criteria specified in the procedure	The TOPO will review and evaluate contractor compliance for conformance with the criteria specified in the procedure.
Task 2: Analytical Support	Method Detection Limit (MDL)	MDL determinations will be performed under the conditions specified in the SOP or Laboratory Quality Management Plan.	The contractor will perform MDL determinations when there is new methodology, a significant change in methodology, or instrumentation.	The TOPO will track the completion of MDL determinations to ensure conformance.
Task 2: Analytical Support	Method Detection Limit (MDL)	The contractor will submit documentation of the completion if the Method Detection Limit studies. Documentation will include a summary report for analyte/parameter/instrument results plus all analytical data generated.	Documentation of the Method Detection Limit determination will be provided no less than 95 % of the time.	The TOPO will review and evaluate the submission of the documentation of the Method Detection Limit determination.

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A	ask Area I – nalytical upport	Performance Requirement	Performance Standard(s)	Acceptable Quality Level (AQL)	Method of Surveillance
A	ask 2: nalytical upport	Laboratory Information Management System (LIMS) contractor peer review and validation of the analyses in the LIMS data system.	All environmental sample data in electronic format -LIMS will be peer reviewed and the analyses validated electronically.	LIMS peer review and validation of the analyses will be completed no less than 98 % of the time.	The TOPO will evaluate the compliance for peer review and validation of the analyses by checking each project in the LIMS
A	ask 2: nalytical upport		Data verified by an independent peer reviewer for accuracy and completeness.	Data verified for accuracy no less than 98 % of the time. Data verified for completeness no less than 98 % of the time.	The TOPO will evaluate compliance for accuracy and completeness checks for each LIMS project.
	ask Area II – A/QC Support	Performance Requirement	Performance Standard(s)	Acceptable Quality Level (AQL)	Method of Surveillance
D R	ask 1: evelop and/or eview Analytical fethodologies	The contractor shall conduct method development and provide technical support for new procedures and related QA activities.	Method development shall be conducted in strict conformance with specific requirements provided by the EPA to include verification of acceptable performance of the analytical method, analytical instrumentation and the adequacy of the QA/QC	Analytical methods developed will be 98 % compliant with the criteria and specific requirements provided by EPA	The TOPO will evaluate the method development results for compliance with the technical requirements provided.
D R	ask 1: evelop and/or eview Analytical fethodologies	Method development will be adequately documented.	Documentation and records must be adequate and complete to allow analysts with appropriate technical knowledge to reproduce the results.	The documentation and records will be no less than 98 % complete and in sufficient detail to be able to reconstruct all aspects of the work.	The TOPO will review and evaluate the documentation and records for compliance with the criterion of reconstructibility.
M D S	ask 2: Maintenance and Development of tandard Operating rocedures (SOPs)	Contractor will review and implement SOPs for all laboratory methods, procedures and protocols.	SOPs will contain sufficient technical information and details to allow a Laboratory analyst to complete all tasks covered in the SOP and generate data of known and acceptable quality.	Over 98 % of the time, SOPs will allow a laboratory analyst to reproduce the procedure and generate data of known and acceptable quality.	The PO and/or TOPO will periodically select SOPs for review and audit for compliance.
M D C Q	ask 3: Maintenance of Demonstration of Dapability (DOC) DA Report and QA Activities	QA Activities and DOCs Reports	The contractor will submit monthly QA Activities and DOC Status reports. The QA Activities Status report will include the status of pending QA activities (i.e. corrective actions, internal audits, etc). The DOC Status report will include the status of pending and recently performed DOCs.	The contractor will submit the QA Activities and DOC status Reports on the first Monday of the month no less than 98% of the time. Report will be no less than 98% complete and accurate.	The TOPO will review and evaluate the report.

#### STATEMENT OF WORK- TASK AREA III: OSCAR STATION OPERATION (SUPERFUND)

#### Task 1: Logistical and Administrative Support

The contractor shall provide support for operation of the Region's Official Sample Control and Repository (OSCAR) Station and the Laboratory Information Management System (LIMS) as per the applicable SOPs (eg, OSCAR, Waste Disposal, etc.) and the Region 2 LQMP.

The contractor shall ensure that all personnel performing work under this task area shall be appropriately trained to perform the activities as specified in the SOP.

- The contractor must have staff available between 7am ET and 6pm ET who can perform sample log-in.
- The contractor shall receive samples at the OSCAR station and notify the Task Order Project Officer (TOPO) or designee of sample receipt.
- The contractor will open and remove samples from coolers and verify sample receipt against chain-of-custody (COC) and field data sheets.
- If any sample shipment is received with a broken chain of custody seal(s), with broken or leaking vials or bottles, or with missing samples, the contractor will immediately notify the TOPO.
- The contractor will add sample number and project number to each bottle with appropriate label. Sign the COC, adding date and time of receipt in accordance with the OSCAR SOP.
- The contractor will maintain an OSCAR Project Tracking Log and an OSCAR Sample Tracking Log in either hard copy or electronic format. If an electronic version is used, steps must be taken to secure the electronic file and create a daily backup.

Support functions will include receipt and logging of samples for analysis, and maintenance of sample related documentation, including chain of custody records. In addition, the contractor shall enter analytical data into the LIMS, use the LIMS to generate reports, and archive data files.

The contractor shall provide administrative support for the operation of the Laboratory Information Management System (LIMS). Support will include but not be limited to "Analysis Codes" maintenance and creation, archiving, calculation codes, generating and creating reports, and general LIMS administration.

The contractor shall monitor and record oven temperatures, refrigerator temperatures and balance performance on a daily basis or as required by applicable SOPs.

The contractor shall record, organize, label, copy and file records pertaining to Superfund projects. The Contractor shall also maintain documents and records pertinent to project completion. The contractor shall dispose of all Region 2 Laboratory (US EPA and ESAT) waste generated during the extraction, preparation, and analysis of environmental samples as well as complete the hazardous waste forms for various wastes. It is estimated that the waste should be disposed of at a minimum of twelve (12) times per year (twenty-four times per year for organic waste).

The contractor shall also dispose of environmental samples received by the Region 2

Laboratory for analyses.

All environmental waste and samples must be disposed of in accordance with the Region 2 LQMP and applicable SOP.

The contractor shall maintain the chemical inventory database for the Region 2 Laboratory.

Support under this task assignment is limited to samples and analytical data relating to Superfund sites. As such, the contractor shall track tasks which are defined as site specific or task specific. The contractor shall track the status of the tasks, labor hours, and costs for the cost reimbursable portion. The contractor shall provide the PO and the TOPO with weekly reports for the above referenced data.

The contractor may be required to attend 26 meetings or conferences calls with the TOPO and/or PO for planning and coordinating activities. All work shall be completed in accordance with this Statement of Work, LQMP, including all referenced SOP(s) and documentation. No deviation from the Statement of Work or SOPs shall be made without prior approval.

The contractor shall follow the detailed technical procedures specified in the applicable SOPs.

#### **Documentation**

SOPs and Guidelines Available to the Contractor

For the support activities as defined in this Task, activities are to be accomplished using the basic methods as described in the current OSCAR SOP and Waste Disposal SOP:

Excerpts from the current OSCAR SOP are listed below as:

#### Subject

- 1. Sample Handling
- 2. Sample Storage
- 3. Safety
- 4. Procedures
   Accessing LIMS
   Location Set-up/Modification
   Analysis Codes/Modification
   Sample Log-in/Modification
   Manual Data Entry
   ESAT Data
   Final Reports
   ESAT Sample Flow Chart
   Area and File Management
- 5. Quality Control

#### **Deliverables:**

The content, format, and schedule of deliverables are specified in the current OSCAR SOP.

Deliverables include:

Sample Receipt form, Final LIMS report, Sample LIMS status reports (Active Project List)

It is anticipated that we will be accepting 3000 samples for this contract year.

#### **Task 2: Glassware Washing**

The contractor shall perform the laboratory glassware washing in accordance with rigid, Regional QA/QC requirements specified in TOs and references SOPs. The contractor shall complete all washing, drying and preparation activities and place clean glassware in the designated storage areas within time frames that assure an adequate inventory of clean glassware. Glassware cleaning, washing, and soaking procedure may require the handling and/or use of concentrated and/or diluted acids (e.g., Hydrochloric Acid, Sulfuric Acid) or bases (e.g., Sodium Hydroxide, Hydrogen Peroxide). The use and operation of commercial dishwashers and hot-air ovens are required. The use of baking ovens is required for Organic Analysis glassware only. Perform daily/monthly, or as needed, preventive maintenance of the washer unit. Glassware residue pH check must be performed once daily on a piece of glassware from a completed wash cycle by the Bromothymol blue method.

The contractor shall clean and dry the sample coolers for return. Only coolers with pre-labeled labels will be returned. The coolers recipient should be charged for shipping fees.

#### Task 3: Training

The contractor may be required to attend training. The type of training and the staff required to attend the training will be specified in writing and will be in accordance with Contract Number EP-W-07-083.

### Government Quality Assurance Surveillance Plan (QASP)

Task Area	Performance Requirement	Performance Standard(s)	Acceptable Quality Level	Method of Surveillance
Task Area 1: Logistical and Administrative Support	Samples shall be received in accordance to SOW	Verify sample against chain of custody and field data sheet	During the performance period 100% of the samples should be verified	The TOPO will review weekly and/or monthly reports or logbooks
	Samples checked for accuracy, temperature, preservationetc according to the current OSCAR SOP	Samples containers are opened and samples removed in accordance with the SOP	100% of the sample shipments must be properly verified.	The TOPO will conduct periodic checks of contractor's performance.
	Verify receipt of samples and release of samples according to the current OSCAR SOP	Timeliness - within 3 hours of receipt (excluding short holding time-SHT parameters), relinquish custody of samples to OSCAR sample coordinator or designee	100% of samples should be released to minimize holding time violations.	Review OSCAR logbooks and/or monthly or weekly reports
		Quality -samples are received by ESAT or EPA staff in a condition suitable for analysis	100% of samples meet SOP requirements	Review data reports from OSCAR station and/or weekly reports.
	Paperwork checked for accuracy, temperature, preservationetc. In accordance with current OSCAR SOP	Timeliness - Within 3 hours (excluding SHT samples), all COC/FDS information should be entered into LIMS at the OSCAR station.	During the performance period 100% of the all sample data should be entered and uploaded into the LIMS.	Review monthly and weekly reports; with additional visual oversight by the TOPO during the performance period.
		Quality - Uploads and data entered into LIMS should be complete and accurate	None	TOPO reviews the reports generated for completeness and accuracy.
	Generate electronic data for data package in accordance with current OSCAR SOP	Data package is complete and TOPO notified	Electronic data should be 100% accurate and complete	Review data package from the contractor to confirm the required file exist and final reports are accurate and complete